



**ZAP** by  
Checkmarx

# ZAP by Checkmarx Scanning Report

**Sites:** <https://127.0.0.1:5000> <http://127.0.0.1:5000>

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**ZAP Version:** 2.16.1

ZAP by [Checkmarx](#)

## Summary of Alerts

| Risk Level       | Number of Alerts |
|------------------|------------------|
| High             | 7                |
| Medium           | 4                |
| Low              | 7                |
| Informational    | 15               |
| False Positives: | 0                |

## Alerts

| Name  | Risk Level | Number of Instances |
|---|------------|---------------------|
| <a href="#">Advanced SQL Injection - AND boolean-based blind - WHERE or HAVING clause</a> | High       | 3                   |
| <a href="#">Cross Site Scripting (Reflected)</a>  | High       | 3                   |
| <a href="#">LDAP Injection - openldap</a>   | High       | 1                   |
| <a href="#">NoSQL Injection - MongoDB</a>   | High       | 1                   |
| <a href="#">Path Traversal</a>  | High       | 7                   |
| <a href="#">SQL Injection</a>   | High       | 8                   |
| <a href="#">Source Code Disclosure - File Inclusion</a>                                   | High       | 2                   |
| <a href="#">Content Security Policy (CSP) Header Not Set</a>                              | Medium     | 1                   |
| <a href="#">Format String Error</a>   | Medium     | 1                   |
| <a href="#">HTTP Only Site</a>  | Medium     | 1                   |
| <a href="#">Integer Overflow Error</a>  | Medium     | 1                   |
| <a href="#">Application Error Disclosure</a>  | Low        | 1                   |
| <a href="#">Cross Site Scripting Weakness (Persistent in JSON Response)</a>               | Low        | 1                   |
| <a href="#">Full Path Disclosure</a>  | Low        | 1                   |
| <a href="#">Insufficient Site Isolation Against Spectre Vulnerability</a>                 | Low        | 21                  |
| <a href="#">Permissions Policy Header Not Set</a>   | Low        | 2                   |
| <a href="#">Server Leaks Version Information via "Server"</a>                             |            |                     |

|  |               |     |
|--|---------------|-----|
| <a href="#">HTTP Response Header Field</a>                   | Low           | 60  |
| <a href="#">X-Content-Type-Options Header Missing</a>        | Low           | 17  |
| <a href="#">Authentication Request Identified</a>            | Informational | 4   |
| <a href="#">Base64 Disclosure</a>                            | Informational | 2   |
| <a href="#">Information Disclosure - Suspicious Comments</a> | Informational | 2   |
| <a href="#">Modern Web Application</a>                       | Informational | 1   |
| <a href="#">Non-Storable Content</a>                         | Informational | 16  |
| <a href="#">Sec-Fetch-Dest Header is Missing</a>             | Informational | 60  |
| <a href="#">Sec-Fetch-Mode Header is Missing</a>             | Informational | 60  |
| <a href="#">Sec-Fetch-Site Header is Missing</a>             | Informational | 60  |
| <a href="#">Sec-Fetch-User Header is Missing</a>             | Informational | 60  |
| <a href="#">Session Management Response Identified</a>       | Informational | 6   |
| <a href="#">Storable and Cacheable Content</a>               | Informational | 47  |
| <a href="#">Storable but Non-Cacheable Content</a>           | Informational | 3   |
| <a href="#">Tech Detected - Flask</a>                        | Informational | 2   |
| <a href="#">Tech Detected - Python</a>                       | Informational | 2   |
| <a href="#">User Agent Fuzzer</a>                            | Informational | 105 |

## Alert Detail

| High        | Advanced SQL Injection - AND boolean-based blind - WHERE or HAVING clause  |
|-------------|--|
| Description | A SQL injection may be possible using the attached payload.  |
| URL         | <a href="http://127.0.0.1:5000/books/v1">http://127.0.0.1:5000/books/v1</a>  |
| Method      | POST   |
| Attack      | hacker book) AND 5148=5148 AND (3504=3504  |
| Evidence    |  |
| Other Info  | The page results were successfully manipulated using the boolean conditions [hacker book) AND 5148=5148 AND (3504=3504] and [hacker book) AND 4625=9434 AND (3721=3721] The parameter value being modified was stripped from the HTML output for the purposes of the comparison. Data was returned for the original parameter. The vulnerability was detected by successfully restricting the data originally returned, by manipulating the parameter. |
| URL         | <a href="http://127.0.0.1:5000/books/v1">http://127.0.0.1:5000/books/v1</a>  |
| Method      | POST   |
| Attack      | Hacker) AND 9726=9726 AND (2039=2039   |
| Evidence    |  |
| Other Info  | The page results were successfully manipulated using the boolean conditions [Hacker) AND 9726=9726 AND (2039=2039] and [Hacker) AND 1323=5383 AND (4513=4513] The parameter value being modified was stripped from the HTML output for the purposes of the comparison. Data was returned for the original parameter. The vulnerability was detected by successfully restricting the data originally returned, by manipulating the parameter.           |
| URL         | <a href="http://127.0.0.1:5000/users/v1/register">http://127.0.0.1:5000/users/v1/register</a>  |
| Method      | POST   |
| Attack      | hacker2) AND 2983=2983 AND (6187=6187  |
| Evidence    |  |
|             | The page results were successfully manipulated using the boolean conditions [hacker2)  |

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|------------|---|
| Other Info | AND 2983=2983 AND (6187=6187] and [hacker2) AND 8559=6428 AND (1266=1266] The parameter value being modified was stripped from the HTML output for the purposes of the comparison. Data was returned for the original parameter. The vulnerability was detected by successfully restricting the data originally returned, by manipulating the parameter.  |
| Instances  | 3   |
| Solution   | <p>Do not trust client side input, even if there is client side validation in place.</p> <p>In general, type check all data on the server side.</p> <p>If the application uses JDBC, use PreparedStatement or CallableStatement, with parameters passed by '?'</p> <p>If the application uses ASP, use ADO Command Objects with strong type checking and parameterized queries.</p> <p>If database Stored Procedures can be used, use them.</p> <p>Do *not* concatenate strings into queries in the stored procedure, or use 'exec', 'exec immediate', or equivalent functionality!</p> <p>Do not create dynamic SQL queries using simple string concatenation.</p> <p>Escape all data received from the client.</p> <p>Apply an 'allow list' of allowed characters, or a 'deny list' of disallowed characters in user input.</p> <p>Apply the privilege of least privilege by using the least privileged database user possible.</p> <p>In particular, avoid using the 'sa' or 'db-owner' database users. This does not eliminate SQL injection, but minimizes its impact.</p> <p>Grant the minimum database access that is necessary for the application.</p> |
| Reference  | <a href="https://cheatsheetseries.owasp.org/cheatsheets/SQL_Injection_Prevention_Cheat_Sheet.html">https://cheatsheetseries.owasp.org/cheatsheets/SQL_Injection_Prevention_Cheat_Sheet.html</a>   |
| CWE Id     | <a href="#">89</a>  |
| WASC Id    | 19  |
| Plugin Id  | <a href="#">90018</a>   |

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|-------------|--|
| High        | <b>Cross Site Scripting (Reflected)</b>  |
| Description | <p>Cross-site Scripting (XSS) is an attack technique that involves echoing attacker-supplied code into a user's browser instance. A browser instance can be a standard web browser client, or a browser object embedded in a software product such as the browser within WinAmp, an RSS reader, or an email client. The code itself is usually written in HTML /JavaScript, but may also extend to VBScript, ActiveX, Java, Flash, or any other browser-supported technology.</p> <p>When an attacker gets a user's browser to execute his/her code, the code will run within the security context (or zone) of the hosting web site. With this level of privilege, the code has the ability to read, modify and transmit any sensitive data accessible by the browser. A Cross-site Scripted user could have his/her account hijacked (cookie theft), their browser redirected to another location, or possibly shown fraudulent content delivered by the web site they are visiting. Cross-site Scripting attacks essentially compromise the trust relationship between a user and the web site. Applications utilizing browser object instances which load content from the file system may execute code under the local machine zone allowing for system compromise.</p> <p>There are three types of Cross-site Scripting attacks: non-persistent, persistent and DOM-based.</p> <p>Non-persistent attacks and DOM-based attacks require a user to either visit a specially crafted link laced with malicious code, or visit a malicious web page containing a web form, which when posted to the vulnerable site, will mount the attack. Using a malicious form will oftentimes take place when the vulnerable resource only accepts HTTP POST requests. In</p> |

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|            | <p>such a case, the form can be submitted automatically, without the victim's knowledge (e.g. by using JavaScript). Upon clicking on the malicious link or submitting the malicious form, the XSS payload will get echoed back and will get interpreted by the user's browser and execute. Another technique to send almost arbitrary requests (GET and POST) is by using an embedded client, such as Adobe Flash.</p> <p>Persistent attacks occur when the malicious code is submitted to a web site where it's stored for a period of time. Examples of an attacker's favorite targets often include message board posts, web mail messages, and web chat software. The unsuspecting user is not required to interact with any additional site/link (e.g. an attacker site or a malicious link sent via email), just simply view the web page containing the code.</p>  |
| URL        | <a href="http://127.0.0.1:5000/books/v1">http://127.0.0.1:5000/books/v1</a>   |
| Method     | POST  |
| Attack     | "<script>alert(1);</script>"  |
| Evidence   | "<script>alert(1);</script>"  |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/register">http://127.0.0.1:5000/users/v1/register</a>   |
| Method     | POST  |
| Attack     | "<script>alert(1);</script>"  |
| Evidence   | "<script>alert(1);</script>"  |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/register">http://127.0.0.1:5000/users/v1/register</a>   |
| Method     | POST  |
| Attack     | <img src=x onerror=prompt()>  |
| Evidence   | <img src=x onerror=prompt()>  |
| Other Info |   |
| Instances  | 3   |
|            | <p>Phase: Architecture and Design</p> <p>Use a vetted library or framework that does not allow this weakness to occur or provides constructs that make this weakness easier to avoid.</p> <p>Examples of libraries and frameworks that make it easier to generate properly encoded output include Microsoft's Anti-XSS library, the OWASP ESAPI Encoding module, and Apache Wicket.</p> <p>Phases: Implementation; Architecture and Design</p> <p>Understand the context in which your data will be used and the encoding that will be expected. This is especially important when transmitting data between different components, or when generating outputs that can contain multiple encodings at the same time, such as web pages or multi-part mail messages. Study all expected communication protocols and data representations to determine the required encoding strategies.</p> <p>For any data that will be output to another web page, especially any data that was received from external inputs, use the appropriate encoding on all non-alphanumeric characters.</p> <p>Consult the XSS Prevention Cheat Sheet for more details on the types of encoding and escaping that are needed.</p> <p>Phase: Architecture and Design</p> <p>For any security checks that are performed on the client side, ensure that these checks are duplicated on the server side, in order to avoid CWE-602. Attackers can bypass the client-</p> |

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| Solution  | side checks by modifying values after the checks have been performed, or by changing the client to remove the client-side checks entirely. Then, these modified values would be submitted to the server.   |
|           | If available, use structured mechanisms that automatically enforce the separation between data and code. These mechanisms may be able to provide the relevant quoting, encoding, and validation automatically, instead of relying on the developer to provide this capability at every point where output is generated.  |
|           | Phase: Implementation  |
|           | For every web page that is generated, use and specify a character encoding such as ISO-8859-1 or UTF-8. When an encoding is not specified, the web browser may choose a different encoding by guessing which encoding is actually being used by the web page. This can cause the web browser to treat certain sequences as special, opening up the client to subtle XSS attacks. See CWE-116 for more mitigations related to encoding/escaping.  |
|           | To help mitigate XSS attacks against the user's session cookie, set the session cookie to be HttpOnly. In browsers that support the HttpOnly feature (such as more recent versions of Internet Explorer and Firefox), this attribute can prevent the user's session cookie from being accessible to malicious client-side scripts that use document.cookie. This is not a complete solution, since HttpOnly is not supported by all browsers. More importantly, XMLHttpRequest and other powerful browser technologies provide read access to HTTP headers, including the Set-Cookie header in which the HttpOnly flag is set. |
|           | Assume all input is malicious. Use an "accept known good" input validation strategy, i.e., use an allow list of acceptable inputs that strictly conform to specifications. Reject any input that does not strictly conform to specifications, or transform it into something that does. Do not rely exclusively on looking for malicious or malformed inputs (i.e., do not rely on a deny list). However, deny lists can be useful for detecting potential attacks or determining which inputs are so malformed that they should be rejected outright.   |
|           | When performing input validation, consider all potentially relevant properties, including length, type of input, the full range of acceptable values, missing or extra inputs, syntax, consistency across related fields, and conformance to business rules. As an example of business rule logic, "boat" may be syntactically valid because it only contains alphanumeric characters, but it is not valid if you are expecting colors such as "red" or "blue."  |
|           | Ensure that you perform input validation at well-defined interfaces within the application. This will help protect the application even if a component is reused or moved elsewhere.   |
| Reference | <a href="https://owasp.org/www-community/attacks/xss/">https://owasp.org/www-community/attacks/xss/</a><br><a href="https://cwe.mitre.org/data/definitions/79.html">https://cwe.mitre.org/data/definitions/79.html</a>   |
| CWE Id    | <a href="#">79</a>   |
| WASC Id   | 8  |
| Plugin Id | <a href="#">40012</a>  |

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|-------------|---|
| <b>High</b> | <b>LDAP Injection - openldap</b>  |
| Description | LDAP Injection may be possible. It may be possible for an attacker to bypass authentication controls, and to view and modify arbitrary data in the LDAP directory.  |
| URL         | <a href="http://127.0.0.1:5000/books/v1">http://127.0.0.1:5000/books/v1</a>   |
| Method      | POST  |
| Attack      | parameter [book_title] set to [!<=~>=<=*(,+-"V]   |
| Evidence    | Already exists  |
| Other Info  | parameter [book_title] on [POST] [http://127.0.0.1:5000/books/v1] may be vulnerable to LDAP injection, using an attack with LDAP meta-characters [!<=~>=<=*(,+-"V], yielding known [openldap] error message [Already exists], which was not present in the original response. |
| Instances   | 1   |
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| Solution  | <p>Validate and/or escape all user input before using it to create an LDAP query. In particular, the following characters (or combinations) should be deny listed:</p> <p>&amp;</p> <p> </p> <p>!</p> <p>&lt;</p> <p>&gt;</p> <p>=</p> <p>~=</p> <p>&gt;=</p> <p>&lt;=</p> <p>*</p> <p>(</p> <p>)</p> <p>,</p> <p>+</p> <p>-</p> <p>"</p> <p>'</p> <p>;</p> <p>\</p> <p>/</p> <p>NUL character</p> |
| Reference | <a href="https://owasp.org/www-community/attacks/LDAP_Injection">https://owasp.org/www-community/attacks/LDAP_Injection</a><br><a href="https://cheatsheetseries.owasp.org/cheatsheets/LDAP_Injection_Prevention_Cheat_Sheet.html">https://cheatsheetseries.owasp.org/cheatsheets/LDAP_Injection_Prevention_Cheat_Sheet.html</a>   |
| CWE Id    | <a href="#">90</a>   |
| WASC Id   | 29   |
| Plugin Id | <a href="#">40015</a>  |

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|-------------|---|
| <b>High</b> | <b>NoSQL Injection - MongoDB</b>  |
| Description | MongoDB query injection may be possible.  |
| URL         | <a href="http://127.0.0.1:5000/users/v1/login">http://127.0.0.1:5000/users/v1/login</a>   |
| Method      | POST  |
| Attack      | \$regex.*   |
| Evidence    |   |
| Other       | In some NodeJS based back end implementations, messages having the JSON format as content-type are expected. In order to obtain sensitive data it is possible to attack these |

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| Info      | applications injecting the "{\$ne:}" string (or other similar ones) that is processed as an associative array rather than a simple text. Through this, the queries made to MongoDB will always be true.  |
| Instances | 1  |
| Solution  | Do not trust client side input and escape all data on the server side.<br><br>Avoid to use the query input directly into the where and group clauses and upgrade all drivers at the latest available version.  |
| Reference | <a href="https://arxiv.org/pdf/1506.04082.pdf">https://arxiv.org/pdf/1506.04082.pdf</a><br><a href="https://owasp.org/www-project-web-security-testing-guide/v41/4-Web_Application_Security_Testing/07-Input_Validation_Testing/05.6-Testing_for_NoSQL_Injection.html">https://owasp.org/www-project-web-security-testing-guide/v41/4-Web_Application_Security_Testing/07-Input_Validation_Testing/05.6-Testing_for_NoSQL_Injection.html</a> |
| CWE Id    | <a href="#">943</a>  |
| WASC Id   | 19   |
| Plugin Id | <a href="#">40033</a>  |

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|-------------|--|
| High        | <b>Path Traversal</b>  |
| Description | <p>The Path Traversal attack technique allows an attacker access to files, directories, and commands that potentially reside outside the web document root directory. An attacker may manipulate a URL in such a way that the web site will execute or reveal the contents of arbitrary files anywhere on the web server. Any device that exposes an HTTP-based interface is potentially vulnerable to Path Traversal.</p> <p>Most web sites restrict user access to a specific portion of the file-system, typically called the "web document root" or "CGI root" directory. These directories contain the files intended for user access and the executable necessary to drive web application functionality. To access files or execute commands anywhere on the file-system, Path Traversal attacks will utilize the ability of special-characters sequences.</p> <p>The most basic Path Traversal attack uses the "../" special-character sequence to alter the resource location requested in the URL. Although most popular web servers will prevent this technique from escaping the web document root, alternate encodings of the "../" sequence may help bypass the security filters. These method variations include valid and invalid Unicode-encoding ("..%u2216" or "..%c0%af") of the forward slash character, backslash characters ("..\") on Windows-based servers, URL encoded characters "%2e%2e%2f", and double URL encoding ("..%255c") of the backslash character.</p> <p>Even if the web server properly restricts Path Traversal attempts in the URL path, a web application itself may still be vulnerable due to improper handling of user-supplied input. This is a common problem of web applications that use template mechanisms or load static text from files. In variations of the attack, the original URL parameter value is substituted with the file name of one of the web application's dynamic scripts. Consequently, the results can reveal source code because the file is interpreted as text instead of an executable script. These techniques often employ additional special characters such as the dot (".") to reveal the listing of the current working directory, or "%00" NULL characters in order to bypass rudimentary file extension checks.</p> |
| URL         | <a href="http://127.0.0.1:5000/books/v1?_debugger_=%2Fv1&amp;cmd=resource&amp;f=debugger.js">http://127.0.0.1:5000/books/v1?_debugger_=%2Fv1&amp;cmd=resource&amp;f=debugger.js</a>  |
| Method      | GET  |
| Attack      | /v1  |
| Evidence    |  |
| Other Info  |  |
| URL         | <a href="http://127.0.0.1:5000/createdb">http://127.0.0.1:5000/createdb</a>  |
| Method      | GET  |
| Attack      | createdb   |
| Evidence    |  |
| Other       |  |

|            |   |
|------------|---|
| Info       |   |
| URL        | <a href="http://127.0.0.1:5000/books/v1">http://127.0.0.1:5000/books/v1</a>   |
| Method     | POST  |
| Attack     | /v1   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/books/v1">http://127.0.0.1:5000/books/v1</a>   |
| Method     | POST  |
| Attack     | \v1   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/books/v1">http://127.0.0.1:5000/books/v1</a>   |
| Method     | POST  |
| Attack     | v1  |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/login">http://127.0.0.1:5000/users/v1/login</a>   |
| Method     | POST  |
| Attack     | /login  |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/register">http://127.0.0.1:5000/users/v1/register</a>   |
| Method     | POST  |
| Attack     | register  |
| Evidence   |   |
| Other Info |   |
| Instances  | 7   |
|            | <p>Assume all input is malicious. Use an "accept known good" input validation strategy, i.e., use an allow list of acceptable inputs that strictly conform to specifications. Reject any input that does not strictly conform to specifications, or transform it into something that does. Do not rely exclusively on looking for malicious or malformed inputs (i.e., do not rely on a deny list). However, deny lists can be useful for detecting potential attacks or determining which inputs are so malformed that they should be rejected outright.</p> <p>When performing input validation, consider all potentially relevant properties, including length, type of input, the full range of acceptable values, missing or extra inputs, syntax, consistency across related fields, and conformance to business rules. As an example of business rule logic, "boat" may be syntactically valid because it only contains alphanumeric characters, but it is not valid if you are expecting colors such as "red" or "blue."</p> <p>For filenames, use stringent allow lists that limit the character set to be used. If feasible, only allow a single "." character in the filename to avoid weaknesses, and exclude directory separators such as "/". Use an allow list of allowable file extensions.</p> |



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| Solution  | Warning: if you attempt to cleanse your data, then do so that the end result is not in the form that can be dangerous. A sanitizing mechanism can remove characters such as '.' and ';' which may be required for some exploits. An attacker can try to fool the sanitizing mechanism into "cleaning" data into a dangerous form. Suppose the attacker injects a '.' inside a filename (e.g. "sensitiveFile") and the sanitizing mechanism removes the character resulting in the valid filename, "sensitiveFile". If the input data are now assumed to be safe, then the file may be compromised. |
|           | Inputs should be decoded and canonicalized to the application's current internal representation before being validated. Make sure that your application does not decode the same input twice. Such errors could be used to bypass allow list schemes by introducing dangerous inputs after they have been checked.   |
|           | Use a built-in path canonicalization function (such as realpath() in C) that produces the canonical version of the pathname, which effectively removes "." sequences and symbolic links.   |
|           | Run your code using the lowest privileges that are required to accomplish the necessary tasks. If possible, create isolated accounts with limited privileges that are only used for a single task. That way, a successful attack will not immediately give the attacker access to the rest of the software or its environment. For example, database applications rarely need to run as the database administrator, especially in day-to-day operations.   |
|           | When the set of acceptable objects, such as filenames or URLs, is limited or known, create a mapping from a set of fixed input values (such as numeric IDs) to the actual filenames or URLs, and reject all other inputs.  |
|           | Run your code in a "jail" or similar sandbox environment that enforces strict boundaries between the process and the operating system. This may effectively restrict which files can be accessed in a particular directory or which commands can be executed by your software.   |
|           | OS-level examples include the Unix chroot jail, AppArmor, and SELinux. In general, managed code may provide some protection. For example, java.io.FilePermission in the Java SecurityManager allows you to specify restrictions on file operations.  |
|           | This may not be a feasible solution, and it only limits the impact to the operating system; the rest of your application may still be subject to compromise.   |
| Reference | <a href="https://owasp.org/www-community/attacks/Path_Traversal">https://owasp.org/www-community/attacks/Path_Traversal</a><br><a href="https://cwe.mitre.org/data/definitions/22.html">https://cwe.mitre.org/data/definitions/22.html</a>   |
| CWE Id    | <a href="#">22</a>   |
| WASC Id   | 33   |
| Plugin Id | <a href="#">6</a>  |

| High        | SQL Injection  |
|-------------|--|
| Description | SQL injection may be possible.   |
| URL         | <a href="http://127.0.0.1:5000/books/v1?btn=Confirm+Pin&amp;pin=ZAP+AND+1%3D1+---+">http://127.0.0.1:5000/books/v1?btn=Confirm+Pin&amp;pin=ZAP+AND+1%3D1+---+</a>  |
| Method      | GET  |
| Attack      | ZAP AND 1=1 --   |
| Evidence    |  |
| Other Info  | The page results were successfully manipulated using the boolean conditions [ZAP AND 1=1 -- ] and [ZAP AND 1=2 -- ] The parameter value being modified was NOT stripped from the HTML output for the purposes of the comparison. Data was returned for the original parameter. The vulnerability was detected by successfully restricting the data originally returned, by manipulating the parameter. |
| URL         | <a href="http://127.0.0.1:5000/books/v1?btn=Confirm+Pin+AND+1%3D1+---+&amp;pin=ZAP">http://127.0.0.1:5000/books/v1?btn=Confirm+Pin+AND+1%3D1+---+&amp;pin=ZAP</a>  |
| Method      | GET  |
| Attack      | Confirm Pin OR 1=1 --  |
| Evidence    |  |
|             |  |

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| Other Info | The page results were successfully manipulated using the boolean conditions [Confirm Pin AND 1=1 -- ] and [Confirm Pin OR 1=1 -- ] The parameter value being modified was NOT stripped from the HTML output for the purposes of the comparison. Data was NOT returned for the original parameter. The vulnerability was detected by successfully retrieving more data than originally returned, by manipulating the parameter.           |
| URL        | <a href="http://127.0.0.1:5000/createdb">http://127.0.0.1:5000/createdb</a>  |
| Method     | GET  |
| Attack     | hacker book' OR '1='1' --  |
| Evidence   |  |
| Other Info | The page results were successfully manipulated using the boolean conditions [hacker book' AND '1='1' -- ] and [hacker book' OR '1='1' -- ] The parameter value being modified was stripped from the HTML output for the purposes of the comparison. Data was NOT returned for the original parameter. The vulnerability was detected by successfully retrieving more data than originally returned, by manipulating the parameter.       |
| URL        | <a href="http://127.0.0.1:5000/users/v1/register">http://127.0.0.1:5000/users/v1/register</a>  |
| Method     | POST   |
| Attack     | hacker@ime.eb.br AND 1=1 --  |
| Evidence   |  |
| Other Info | The page results were successfully manipulated using the boolean conditions [hacker@ime.eb.br AND 1=1 -- ] and [hacker@ime.eb.br AND 1=2 -- ] The parameter value being modified was stripped from the HTML output for the purposes of the comparison. Data was returned for the original parameter. The vulnerability was detected by successfully restricting the data originally returned, by manipulating the parameter.             |
| URL        | <a href="http://127.0.0.1:5000/users/v1/register">http://127.0.0.1:5000/users/v1/register</a>  |
| Method     | POST   |
| Attack     | teste@email.com" AND "1"="1" --  |
| Evidence   |  |
| Other Info | The page results were successfully manipulated using the boolean conditions [teste@email.com" AND "1"="1" -- ] and [teste@email.com" AND "1"="2" -- ] The parameter value being modified was NOT stripped from the HTML output for the purposes of the comparison. Data was returned for the original parameter. The vulnerability was detected by successfully restricting the data originally returned, by manipulating the parameter. |
| URL        | <a href="http://127.0.0.1:5000/users/v1/register">http://127.0.0.1:5000/users/v1/register</a>  |
| Method     | POST   |
| Attack     | 123458-2   |
| Evidence   |  |
| Other Info | The original page results were successfully replicated using the expression [123458-2] as the parameter value The parameter value being modified was stripped from the HTML output for the purposes of the comparison.   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/register">http://127.0.0.1:5000/users/v1/register</a>  |
| Method     | POST   |
| Attack     | 123456' AND '1='1' --  |
| Evidence   |  |
| Other Info | The page results were successfully manipulated using the boolean conditions [123456' AND '1='1' -- ] and [123456' AND '1='2' -- ] The parameter value being modified was NOT stripped from the HTML output for the purposes of the comparison. Data was returned for the original parameter. The vulnerability was detected by successfully restricting the data originally returned, by manipulating the parameter.                     |
| URL        | <a href="http://127.0.0.1:5000/users/v1/register">http://127.0.0.1:5000/users/v1/register</a>  |
| Method     | POST   |

|            |   |
|------------|---|
| Attack     | teste AND 1=1 --  |
| Evidence   |   |
| Other Info | The page results were successfully manipulated using the boolean conditions [teste AND 1=1 -- ] and [teste AND 1=2 -- ] The parameter value being modified was NOT stripped from the HTML output for the purposes of the comparison. Data was returned for the original parameter. The vulnerability was detected by successfully restricting the data originally returned, by manipulating the parameter.  |
| Instances  | 8   |
| Solution   | <p>Do not trust client side input, even if there is client side validation in place.</p> <p>In general, type check all data on the server side.</p> <p>If the application uses JDBC, use PreparedStatement or CallableStatement, with parameters passed by '?'</p> <p>If the application uses ASP, use ADO Command Objects with strong type checking and parameterized queries.</p> <p>If database Stored Procedures can be used, use them.</p> <p>Do *not* concatenate strings into queries in the stored procedure, or use 'exec', 'exec immediate', or equivalent functionality!</p> <p>Do not create dynamic SQL queries using simple string concatenation.</p> <p>Escape all data received from the client.</p> <p>Apply an 'allow list' of allowed characters, or a 'deny list' of disallowed characters in user input.</p> <p>Apply the principle of least privilege by using the least privileged database user possible.</p> <p>In particular, avoid using the 'sa' or 'db-owner' database users. This does not eliminate SQL injection, but minimizes its impact.</p> <p>Grant the minimum database access that is necessary for the application.</p> |
| Reference  | <a href="https://cheatsheetseries.owasp.org/cheatsheets/SQL_Injection_Prevention_Cheat_Sheet.html">https://cheatsheetseries.owasp.org/cheatsheets/SQL_Injection_Prevention_Cheat_Sheet.html</a>   |
| CWE Id     | <a href="#">89</a>  |
| WASC Id    | 19  |
| Plugin Id  | <a href="#">40018</a>   |

|             |   |
|-------------|---|
| High        | Source Code Disclosure - File Inclusion   |
| Description | <p>The Path Traversal attack technique allows an attacker access to files, directories, and commands that potentially reside outside the web document root directory. An attacker may manipulate a URL in such a way that the web site will execute or reveal the contents of arbitrary files anywhere on the web server. Any device that exposes an HTTP-based interface is potentially vulnerable to Path Traversal.</p> <p>Most web sites restrict user access to a specific portion of the file-system, typically called the "web document root" or "CGI root" directory. These directories contain the files intended for user access and the executable necessary to drive web application functionality. To access files or execute commands anywhere on the file-system, Path Traversal attacks will utilize the ability of special-characters sequences.</p> <p>The most basic Path Traversal attack uses the "../" special-character sequence to alter the resource location requested in the URL. Although most popular web servers will prevent this technique from escaping the web document root, alternate encodings of the "../" sequence may help bypass the security filters. These method variations include valid and invalid Unicode-encoding ("..%u2216" or "..%c0%af") of the forward slash character, backslash characters ("..\") on Windows-based servers, URL encoded characters "%2e%2e%2f"), and double URL encoding ("..%255c") of the backslash character.</p> |

|            |   |
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|            | <p>Even if the web server properly restricts Path Traversal attempts in the URL path, a web application itself may still be vulnerable due to improper handling of user-supplied input. This is a common problem of web applications that use template mechanisms or load static text from files. In variations of the attack, the original URL parameter value is substituted with the file name of one of the web application's dynamic scripts. Consequently, the results can reveal source code because the file is interpreted as text instead of an executable script. These techniques often employ additional special characters such as the dot (".") to reveal the listing of the current working directory, or "%00" NULL characters in order to bypass rudimentary file extension checks.</p>   |
| URL        | <a href="http://127.0.0.1:5000/books/v1">http://127.0.0.1:5000/books/v1</a>   |
| Method     | POST  |
| Attack     | v1  |
| Evidence   |   |
| Other Info | The output for the source code filename [v1] differs sufficiently from that of the random parameter [sydkxytydiwszasfflijvepadpfpaskmouqe], at [0%], compared to a threshold of [75%]   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/register">http://127.0.0.1:5000/users/v1/register</a>   |
| Method     | POST  |
| Attack     | register  |
| Evidence   |   |
| Other Info | The output for the source code filename [register] differs sufficiently from that of the random parameter [sydkxytydiwszasfflijvepadpfpaskmouqe], at [0%], compared to a threshold of [75%]   |
| Instances  | 2   |
| Solution   | <p>Assume all input is malicious. Use an "accept known good" input validation strategy, i.e., use an allow list of acceptable inputs that strictly conform to specifications. Reject any input that does not strictly conform to specifications, or transform it into something that does. Do not rely exclusively on looking for malicious or malformed inputs (i.e., do not rely on a deny list). However, deny lists can be useful for detecting potential attacks or determining which inputs are so malformed that they should be rejected outright.</p> <p>When performing input validation, consider all potentially relevant properties, including length, type of input, the full range of acceptable values, missing or extra inputs, syntax, consistency across related fields, and conformance to business rules. As an example of business rule logic, "boat" may be syntactically valid because it only contains alphanumeric characters, but it is not valid if you are expecting colors such as "red" or "blue."</p> <p>For filenames, use stringent allow lists that limit the character set to be used. If feasible, only allow a single "." character in the filename to avoid weaknesses, and exclude directory separators such as "/". Use an allow list of allowable file extensions.</p> <p>Warning: if you attempt to cleanse your data, then do so that the end result is not in the form that can be dangerous. A sanitizing mechanism can remove characters such as '.' and ';' which may be required for some exploits. An attacker can try to fool the sanitizing mechanism into "cleaning" data into a dangerous form. Suppose the attacker injects a '.' inside a filename (e.g. "sensi.tiveFile") and the sanitizing mechanism removes the character resulting in the valid filename, "sensitiveFile". If the input data are now assumed to be safe, then the file may be compromised.</p> <p>Inputs should be decoded and canonicalized to the application's current internal representation before being validated. Make sure that your application does not decode the same input twice. Such errors could be used to bypass allow list schemes by introducing dangerous inputs after they have been checked.</p> <p>Use a built-in path canonicalization function (such as realpath() in C) that produces the canonical version of the pathname, which effectively removes ".." sequences and symbolic links.</p> |

|           |   |
|-----------|---|
|           | <p>Run your code using the lowest privileges that are required to accomplish the necessary tasks. If possible, create isolated accounts with limited privileges that are only used for a single task. That way, a successful attack will not immediately give the attacker access to the rest of the software or its environment. For example, database applications rarely need to run as the database administrator, especially in day-to-day operations.</p> <p>When the set of acceptable objects, such as filenames or URLs, is limited or known, create a mapping from a set of fixed input values (such as numeric IDs) to the actual filenames or URLs, and reject all other inputs.</p> <p>Run your code in a "jail" or similar sandbox environment that enforces strict boundaries between the process and the operating system. This may effectively restrict which files can be accessed in a particular directory or which commands can be executed by your software.</p> <p>OS-level examples include the Unix chroot jail, AppArmor, and SELinux. In general, managed code may provide some protection. For example, java.io.FilePermission in the Java SecurityManager allows you to specify restrictions on file operations.</p> <p>This may not be a feasible solution, and it only limits the impact to the operating system; the rest of your application may still be subject to compromise.</p> |
| Reference | <a href="https://owasp.org/www-community/attacks/Path_Traversal">https://owasp.org/www-community/attacks/Path_Traversal</a><br><a href="https://cwe.mitre.org/data/definitions/22.html">https://cwe.mitre.org/data/definitions/22.html</a>  |
| CWE Id    | <a href="#">541</a>   |
| WASC Id   | 33  |
| Plugin Id | <a href="#">43</a>  |

| Medium      | Content Security Policy (CSP) Header Not Set  |
|-------------|---|
| Description | <p>Content Security Policy (CSP) is an added layer of security that helps to detect and mitigate certain types of attacks, including Cross Site Scripting (XSS) and data injection attacks. These attacks are used for everything from data theft to site defacement or distribution of malware. CSP provides a set of standard HTTP headers that allow website owners to declare approved sources of content that browsers should be allowed to load on that page — covered types are JavaScript, CSS, HTML frames, fonts, images and embeddable objects such as Java applets, ActiveX, audio and video files.</p>   |
| URL         | <a href="http://127.0.0.1:5000/books/v1">http://127.0.0.1:5000/books/v1</a>   |
| Method      | GET   |
| Attack      |   |
| Evidence    |   |
| Other Info  |   |
| Instances   | 1   |
| Solution    | <p>Ensure that your web server, application server, load balancer, etc. is configured to set the Content-Security-Policy header.</p>  |
| Reference   | <a href="https://developer.mozilla.org/en-US/docs/Web/Security/CSP/Introducing_Content_Security_Policy">https://developer.mozilla.org/en-US/docs/Web/Security/CSP/Introducing_Content_Security_Policy</a><br><a href="https://cheatsheetseries.owasp.org/cheatsheets/Content_Security_Policy_Cheat_Sheet.html">https://cheatsheetseries.owasp.org/cheatsheets/Content_Security_Policy_Cheat_Sheet.html</a><br><a href="https://www.w3.org/TR/CSP/">https://www.w3.org/TR/CSP/</a><br><a href="https://w3c.github.io/webappsec-csp/">https://w3c.github.io/webappsec-csp/</a><br><a href="https://web.dev/articles/csp">https://web.dev/articles/csp</a><br><a href="https://caniuse.com/#feat=contentsecuritypolicy">https://caniuse.com/#feat=contentsecuritypolicy</a><br><a href="https://content-security-policy.com/">https://content-security-policy.com/</a> |
| CWE Id      | <a href="#">693</a>   |
| WASC Id     | 15  |
| Plugin Id   | <a href="#">10038</a>   |

| Medium | Format String Error |
|--------|---------------------|
|        |                     |

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|-------------|--|
| Description | A Format String error occurs when the submitted data of an input string is evaluated as a command by the application.  |
| URL         | <a href="http://127.0.0.1:5000/books/v1">http://127.0.0.1:5000/books/v1</a>  |
| Method      | POST   |
| Attack      | ZAP %!s%2!s%3!s%4!s%5!s%6!s%7!s%8!s%9!s%10!s%11!s%12!s%13!s%14!s%15!s%16!s%17!s%18!s%19!s%20!s%21!n%22!n%23!n%24!n%25!n%26!n%27!n%28!n%29!n%30!n%31!n%32!n%33!n%34!n%35!n%36!n%37!n%38!n%39!n%40!n |
| Evidence    |  |
| Other Info  | Potential Format String Error. The script closed the connection on a Microsoft format string error.  |
| Instances   | 1  |
| Solution    | Rewrite the background program using proper deletion of bad character strings. This will require a recompile of the background executable.   |
| Reference   | <a href="https://owasp.org/www-community/attacks/Format_string_attack">https://owasp.org/www-community/attacks/Format_string_attack</a>  |
| CWE Id      | <a href="#">134</a>  |
| WASC Id     | 6  |
| Plugin Id   | <a href="#">30002</a>  |

| Medium      | HTTP Only Site   |
|-------------|--|
| Description | The site is only served under HTTP and not HTTPS.  |
| URL         | <a href="http://127.0.0.1:5000/books/v1">http://127.0.0.1:5000/books/v1</a>  |
| Method      | POST   |
| Attack      |  |
| Evidence    |  |
| Other Info  | Failed to connect. ZAP attempted to connect via: https://127.0.0.1:5000/books/v1   |
| Instances   | 1  |
| Solution    | Configure your web or application server to use SSL (https).   |
| Reference   | <a href="https://cheatsheetseries.owasp.org/cheatsheets/Transport_Layer_Protection_Cheat_Sheet.html">https://cheatsheetseries.owasp.org/cheatsheets/Transport_Layer_Protection_Cheat_Sheet.html</a><br><a href="https://letsencrypt.org/">https://letsencrypt.org/</a> |
| CWE Id      | <a href="#">311</a>  |
| WASC Id     | 4  |
| Plugin Id   | <a href="#">10106</a>  |

[illegible]

|           |  |
|-----------|--|
| Reference | <a href="https://en.wikipedia.org/wiki/Integer_overflow">https://en.wikipedia.org/wiki/Integer_overflow</a><br><a href="https://cwe.mitre.org/data/definitions/190.html">https://cwe.mitre.org/data/definitions/190.html</a> |
| CWE Id    | <a href="#">190</a>  |
| WASC Id   | 3  |
| Plugin Id | <a href="#">30003</a>  |

|             |   |
|-------------|---|
| <b>Low</b>  | <b>Application Error Disclosure</b>   |
| Description | This page contains an error/warning message that may disclose sensitive information like the location of the file that produced the unhandled exception. This information can be used to launch further attacks against the web application. The alert could be a false positive if the error message is found inside a documentation page. |
| URL         | <a href="http://127.0.0.1:5000/books/v1">http://127.0.0.1:5000/books/v1</a>   |
| Method      | GET   |
| Attack      |   |
| Evidence    | HTTP/1.1 500 INTERNAL SERVER ERROR  |
| Other Info  |   |
| Instances   | 1   |
| Solution    | Review the source code of this page. Implement custom error pages. Consider implementing a mechanism to provide a unique error reference/identifier to the client (browser) while logging the details on the server side and not exposing them to the user.   |
| Reference   |   |
| CWE Id      | <a href="#">550</a>   |
| WASC Id     | 13  |
| Plugin Id   | <a href="#">90022</a>   |

|             |   |
|-------------|---|
| <b>Low</b>  | <b>Cross Site Scripting Weakness (Persistent in JSON Response)</b>  |
| Description | A XSS attack was found in a JSON response, this might leave content consumers vulnerable to attack if they don't appropriately handle the data (response).  |
| URL         | <a href="http://127.0.0.1:5000/books/v1?btn=Confirm+Pin&amp;pin=ZAP">http://127.0.0.1:5000/books/v1?btn=Confirm+Pin&amp;pin=ZAP</a>   |
| Method      | GET   |
| Attack      | <script>alert(1);</script>  |
| Evidence    |   |
| Other Info  | Raised with LOW confidence as the Content-Type is not HTML.   |
| Instances   | 1   |
|             | <p>Phase: Architecture and Design</p> <p>Use a vetted library or framework that does not allow this weakness to occur or provides constructs that make this weakness easier to avoid.</p> <p>Examples of libraries and frameworks that make it easier to generate properly encoded output include Microsoft's Anti-XSS library, the OWASP ESAPI Encoding module, and Apache Wicket.</p> <p>Phases: Implementation; Architecture and Design</p> <p>Understand the context in which your data will be used and the encoding that will be expected. This is especially important when transmitting data between different components, or when generating outputs that can contain multiple encodings at the same time, such as web pages or multi-part mail messages. Study all expected communication protocols and data representations to determine the required encoding strategies.</p> |



|             |  |
|-------------|--|
| Solution    | For any data that will be output to another web page, especially any data that was received from external inputs, use the appropriate encoding on all non-alphanumeric characters.   |
|             | Consult the XSS Prevention Cheat Sheet for more details on the types of encoding and escaping that are needed.   |
|             | Phase: Architecture and Design   |
|             | For any security checks that are performed on the client side, ensure that these checks are duplicated on the server side, in order to avoid CWE-602. Attackers can bypass the client-side checks by modifying values after the checks have been performed, or by changing the client to remove the client-side checks entirely. Then, these modified values would be submitted to the server.   |
|             | If available, use structured mechanisms that automatically enforce the separation between data and code. These mechanisms may be able to provide the relevant quoting, encoding, and validation automatically, instead of relying on the developer to provide this capability at every point where output is generated.  |
|             | Phase: Implementation  |
|             | For every web page that is generated, use and specify a character encoding such as ISO-8859-1 or UTF-8. When an encoding is not specified, the web browser may choose a different encoding by guessing which encoding is actually being used by the web page. This can cause the web browser to treat certain sequences as special, opening up the client to subtle XSS attacks. See CWE-116 for more mitigations related to encoding/escaping.  |
|             | To help mitigate XSS attacks against the user's session cookie, set the session cookie to be HttpOnly. In browsers that support the HttpOnly feature (such as more recent versions of Internet Explorer and Firefox), this attribute can prevent the user's session cookie from being accessible to malicious client-side scripts that use document.cookie. This is not a complete solution, since HttpOnly is not supported by all browsers. More importantly, XMLHttpRequest and other powerful browser technologies provide read access to HTTP headers, including the Set-Cookie header in which the HttpOnly flag is set. |
| Reference   | Assume all input is malicious. Use an "accept known good" input validation strategy, i.e., use an allow list of acceptable inputs that strictly conform to specifications. Reject any input that does not strictly conform to specifications, or transform it into something that does. Do not rely exclusively on looking for malicious or malformed inputs (i.e., do not rely on a deny list). However, deny lists can be useful for detecting potential attacks or determining which inputs are so malformed that they should be rejected outright.   |
|             | When performing input validation, consider all potentially relevant properties, including length, type of input, the full range of acceptable values, missing or extra inputs, syntax, consistency across related fields, and conformance to business rules. As an example of business rule logic, "boat" may be syntactically valid because it only contains alphanumeric characters, but it is not valid if you are expecting colors such as "red" or "blue."  |
|             | Ensure that you perform input validation at well-defined interfaces within the application. This will help protect the application even if a component is reused or moved elsewhere.   |
|             | <a href="https://owasp.org/www-community/attacks/xss/">https://owasp.org/www-community/attacks/xss/</a><br><a href="https://cwe.mitre.org/data/definitions/79.html">https://cwe.mitre.org/data/definitions/79.html</a>   |
| CWE Id      | <a href="#">79</a>   |
| WASC Id     | 8  |
| Plugin Id   | <a href="#">40014</a>  |
| <b>Low</b>  | <b>Full Path Disclosure</b>  |
| Description | The full path of files which might be sensitive has been exposed to the client.  |
| URL         | <a href="http://127.0.0.1:5000/books/v1">http://127.0.0.1:5000/books/v1</a>  |
| Method      | GET  |
| Attack      |  |
|             |  |



|            |   |
|------------|---|
| Evidence   | /home/  |
| Other Info |   |
| Instances  | 1   |
| Solution   | Disable directory browsing in your web server. Refer to the web server documentation.   |
| Reference  | <a href="https://owasp.org/www-community/attacks/Full_Path_Disclosure">https://owasp.org/www-community/attacks/Full_Path_Disclosure</a> |
| CWE Id     | <a href="#">209</a>   |
| WASC Id    | 13  |
| Plugin Id  | <a href="#">110009</a>  |

|             |   |
|-------------|---|
| <b>Low</b>  | <b>Insufficient Site Isolation Against Spectre Vulnerability</b>  |
| Description | Cross-Origin-Resource-Policy header is an opt-in header designed to counter side-channels attacks like Spectre. Resource should be specifically set as shareable amongst different origins. |
| URL         | <a href="http://127.0.0.1:5000/users/v1/hacker2">http://127.0.0.1:5000/users/v1/hacker2</a>   |
| Method      | DELETE  |
| Attack      |   |
| Evidence    |   |
| Other Info  |   |
| URL         | <a href="http://127.0.0.1:5000">http://127.0.0.1:5000</a>   |
| Method      | GET   |
| Attack      |   |
| Evidence    |   |
| Other Info  |   |
| URL         | <a href="http://127.0.0.1:5000/">http://127.0.0.1:5000/</a>   |
| Method      | GET   |
| Attack      |   |
| Evidence    |   |
| Other Info  |   |
| URL         | <a href="http://127.0.0.1:5000/books/v1">http://127.0.0.1:5000/books/v1</a>   |
| Method      | GET   |
| Attack      |   |
| Evidence    |   |
| Other Info  |   |
| URL         | <a href="http://127.0.0.1:5000/books/v1?_debugger_=yes&amp;cmd=resource&amp;f=console.png">http://127.0.0.1:5000/books/v1?_debugger_=yes&amp;cmd=resource&amp;f=console.png</a>             |
| Method      | GET   |
| Attack      |   |
| Evidence    |   |
| Other Info  |   |
| URL         | <a href="http://127.0.0.1:5000/books/v1?_debugger_=yes&amp;cmd=resource&amp;f=debugger.js">http://127.0.0.1:5000/books/v1?_debugger_=yes&amp;cmd=resource&amp;f=debugger.js</a>             |

|            |   |
|------------|---|
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/books/v1?_debugger_=yes&amp;cmd=resource&amp;f=style.css">http://127.0.0.1:5000/books/v1?_debugger_=yes&amp;cmd=resource&amp;f=style.css</a> |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/books/v1?btn=Confirm+Pin&amp;pin=ZAP">http://127.0.0.1:5000/books/v1?btn=Confirm+Pin&amp;pin=ZAP</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/createdb">http://127.0.0.1:5000/createdb</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1">http://127.0.0.1:5000/users/v1</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/_debug">http://127.0.0.1:5000/users/v1/_debug</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/admin">http://127.0.0.1:5000/users/v1/admin</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/name1">http://127.0.0.1:5000/users/v1/name1</a>   |
| Method     | GET   |
| Attack     |   |

|            |   |
|------------|---|
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/name2">http://127.0.0.1:5000/users/v1/name2</a>                     |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/books/v1">http://127.0.0.1:5000/books/v1</a>                                 |
| Method     | POST  |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/login">http://127.0.0.1:5000/users/v1/login</a>                     |
| Method     | POST  |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/register">http://127.0.0.1:5000/users/v1/register</a>               |
| Method     | POST  |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/hacker/email">http://127.0.0.1:5000/users/v1/hacker/email</a>       |
| Method     | PUT   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/hacker/password">http://127.0.0.1:5000/users/v1/hacker/password</a> |
| Method     | PUT   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/name1/email">http://127.0.0.1:5000/users/v1/name1/email</a>         |
| Method     | PUT   |
| Attack     |   |
| Evidence   |   |
|            |   |

|            |  |
|------------|--|
| Other Info |  |
| URL        | <a href="http://127.0.0.1:5000/users/v1/name2/email">http://127.0.0.1:5000/users/v1/name2/email</a>  |
| Method     | PUT  |
| Attack     |  |
| Evidence   |  |
| Other Info |  |
| Instances  | 21   |
| Solution   | <p>Ensure that the application/web server sets the Cross-Origin-Resource-Policy header appropriately, and that it sets the Cross-Origin-Resource-Policy header to 'same-origin' for all web pages.</p> <p>'same-site' is considered as less secured and should be avoided.</p> <p>If resources must be shared, set the header to 'cross-origin'.</p> <p>If possible, ensure that the end user uses a standards-compliant and modern web browser that supports the Cross-Origin-Resource-Policy header (<a href="https://caniuse.com/mdn-http_headers_cross-origin-resource-policy">https://caniuse.com/mdn-http_headers_cross-origin-resource-policy</a>).</p> |
| Reference  | <a href="https://developer.mozilla.org/en-US/docs/Web/HTTP/Cross-Origin_Resource_Policy">https://developer.mozilla.org/en-US/docs/Web/HTTP/Cross-Origin_Resource_Policy</a>  |
| CWE Id     | <a href="#">693</a>  |
| WASC Id    | 14   |
| Plugin Id  | <a href="#">90004</a>  |

|             |   |
|-------------|---|
| <b>Low</b>  | <b>Permissions Policy Header Not Set</b>  |
| Description | Permissions Policy Header is an added layer of security that helps to restrict from unauthorized access or usage of browser/client features by web resources. This policy ensures the user privacy by limiting or specifying the features of the browsers can be used by the web resources. Permissions Policy provides a set of standard HTTP headers that allow website owners to limit which features of browsers can be used by the page such as camera, microphone, location, full screen etc.   |
| URL         | <a href="http://127.0.0.1:5000/books/v1">http://127.0.0.1:5000/books/v1</a>   |
| Method      | GET   |
| Attack      |   |
| Evidence    |   |
| Other Info  |   |
| URL         | <a href="http://127.0.0.1:5000/books/v1?__debugger__=yes&amp;cmd=resource&amp;f=debugger.js">http://127.0.0.1:5000/books/v1?__debugger__=yes&amp;cmd=resource&amp;f=debugger.js</a>   |
| Method      | GET   |
| Attack      |   |
| Evidence    |   |
| Other Info  |   |
| Instances   | 2   |
| Solution    | Ensure that your web server, application server, load balancer, etc. is configured to set the Permissions-Policy header.  |
| Reference   | <a href="https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/Permissions-Policy">https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/Permissions-Policy</a><br><a href="https://developer.chrome.com/blog/feature-policy/">https://developer.chrome.com/blog/feature-policy/</a><br><a href="https://scotthelme.co.uk/a-new-security-header-feature-policy/">https://scotthelme.co.uk/a-new-security-header-feature-policy/</a><br><a href="https://w3c.github.io/webappsec-feature-policy/">https://w3c.github.io/webappsec-feature-policy/</a><br><a href="https://www.smashingmagazine.com/2018/12/feature-policy/">https://www.smashingmagazine.com/2018/12/feature-policy/</a> |

|           |                       |
|-----------|-----------------------|
| CWE Id    | <a href="#">693</a>   |
| WASC Id   | 15                    |
| Plugin Id | <a href="#">10063</a> |

| Low         | Server Leaks Version Information via "Server" HTTP Response Header Field  |
|-------------|---|
| Description | The web/application server is leaking version information via the "Server" HTTP response header. Access to such information may facilitate attackers identifying other vulnerabilities your web/application server is subject to. |
| URL         | <a href="http://127.0.0.1:5000/users/v1/hacker2">http://127.0.0.1:5000/users/v1/hacker2</a>   |
| Method      | DELETE  |
| Attack      |   |
| Evidence    | Werkzeug/2.2.3 Python/3.10.14   |
| Other Info  |   |
| URL         | <a href="http://127.0.0.1:5000/users/v1/name2">http://127.0.0.1:5000/users/v1/name2</a>   |
| Method      | DELETE  |
| Attack      |   |
| Evidence    | Werkzeug/2.2.3 Python/3.10.14   |
| Other Info  |   |
| URL         | <a href="http://127.0.0.1:5000/">http://127.0.0.1:5000/</a>   |
| Method      | GET   |
| Attack      |   |
| Evidence    | Werkzeug/2.2.3 Python/3.10.14   |
| Other Info  |   |
| URL         | <a href="http://127.0.0.1:5000/">http://127.0.0.1:5000/</a>   |
| Method      | GET   |
| Attack      |   |
| Evidence    | Werkzeug/2.2.3 Python/3.10.14   |
| Other Info  |   |
| URL         | <a href="http://127.0.0.1:5000/books">http://127.0.0.1:5000/books</a>   |
| Method      | GET   |
| Attack      |   |
| Evidence    | Werkzeug/2.2.3 Python/3.10.14   |
| Other Info  |   |
| URL         | <a href="http://127.0.0.1:5000/books/v1">http://127.0.0.1:5000/books/v1</a>   |
| Method      | GET   |
| Attack      |   |
| Evidence    | Werkzeug/2.2.3 Python/3.10.14   |
| Other Info  |   |
| URL         | <a href="http://127.0.0.1:5000/books/v1?_debugger_=yes&amp;cmd=resource&amp;f=console.png">http://127.0.0.1:5000/books/v1?_debugger_=yes&amp;cmd=resource&amp;f=console.png</a>   |

|            |   |
|------------|---|
| Method     | GET   |
| Attack     |   |
| Evidence   | Werkzeug/2.2.3 Python/3.10.14   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/books/v1?_debugger_=yes&amp;cmd=resource&amp;f=debugger.js">http://127.0.0.1:5000/books/v1?_debugger_=yes&amp;cmd=resource&amp;f=debugger.js</a> |
| Method     | GET   |
| Attack     |   |
| Evidence   | Werkzeug/2.2.3 Python/3.10.14   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/books/v1?_debugger_=yes&amp;cmd=resource&amp;f=style.css">http://127.0.0.1:5000/books/v1?_debugger_=yes&amp;cmd=resource&amp;f=style.css</a>     |
| Method     | GET   |
| Attack     |   |
| Evidence   | Werkzeug/2.2.3 Python/3.10.14   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/books/v1?btn=Confirm+Pin&amp;pin=ZAP">http://127.0.0.1:5000/books/v1?btn=Confirm+Pin&amp;pin=ZAP</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   | Werkzeug/2.2.3 Python/3.10.14   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/createdb">http://127.0.0.1:5000/createdb</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   | Werkzeug/2.2.3 Python/3.10.14   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/debug">http://127.0.0.1:5000/debug</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   | Werkzeug/2.2.3 Python/3.10.14   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/favicon.ico">http://127.0.0.1:5000/favicon.ico</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   | Werkzeug/2.2.3 Python/3.10.14   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/home">http://127.0.0.1:5000/home</a>   |
| Method     | GET   |
| Attack     |   |

|            |   |
|------------|---|
| Evidence   | Werkzeug/2.2.3 Python/3.10.14   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/home/kali">http://127.0.0.1:5000/home/kali</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   | Werkzeug/2.2.3 Python/3.10.14   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/home/kali/VAmPI">http://127.0.0.1:5000/home/kali/VAmPI</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   | Werkzeug/2.2.3 Python/3.10.14   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/home/kali/VAmPI/api_views">http://127.0.0.1:5000/home/kali/VAmPI/api_views</a>                         |
| Method     | GET   |
| Attack     |   |
| Evidence   | Werkzeug/2.2.3 Python/3.10.14   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/home/kali/VAmPI/api_views/books.py">http://127.0.0.1:5000/home/kali/VAmPI/api_views/books.py</a>       |
| Method     | GET   |
| Attack     |   |
| Evidence   | Werkzeug/2.2.3 Python/3.10.14   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/home/kali/VAmPI/models">http://127.0.0.1:5000/home/kali/VAmPI/models</a>                               |
| Method     | GET   |
| Attack     |   |
| Evidence   | Werkzeug/2.2.3 Python/3.10.14   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/home/kali/VAmPI/models/books_model.py">http://127.0.0.1:5000/home/kali/VAmPI/models/books_model.py</a> |
| Method     | GET   |
| Attack     |   |
| Evidence   | Werkzeug/2.2.3 Python/3.10.14   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/home/kali/VAmPI/venv310">http://127.0.0.1:5000/home/kali/VAmPI/venv310</a>                             |
| Method     | GET   |
| Attack     |   |
| Evidence   | Werkzeug/2.2.3 Python/3.10.14   |

|            |   |
|------------|---|
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib">http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   | Werkzeug/2.2.3 Python/3.10.14   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10">http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   | Werkzeug/2.2.3 Python/3.10.14   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10/site-packages">http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10/site-packages</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   | Werkzeug/2.2.3 Python/3.10.14   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10/site-packages/connexion">http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10/site-packages/connexion</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   | Werkzeug/2.2.3 Python/3.10.14   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10/site-packages/connexion/decorators">http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10/site-packages/connexion/decorators</a>                           |
| Method     | GET   |
| Attack     |   |
| Evidence   | Werkzeug/2.2.3 Python/3.10.14   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10/site-packages/connexion/decorators/decorator.py">http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10/site-packages/connexion/decorators/decorator.py</a> |
| Method     | GET   |
| Attack     |   |
| Evidence   | Werkzeug/2.2.3 Python/3.10.14   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10/site-packages/connexion/decorators/parameter.py">http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10/site-packages/connexion/decorators/parameter.py</a> |
| Method     | GET   |
| Attack     |   |
| Evidence   | Werkzeug/2.2.3 Python/3.10.14   |



|            |   |
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| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10/site-packages/connexion/decorators/uri_parsing.py">http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10/site-packages/connexion/decorators/uri_parsing.py</a> |
| Method     | GET   |
| Attack     |   |
| Evidence   | Werkzeug/2.2.3 Python/3.10.14   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10/site-packages/flask">http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10/site-packages/flask</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   | Werkzeug/2.2.3 Python/3.10.14   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10/site-packages/flask/app.py">http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10/site-packages/flask/app.py</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   | Werkzeug/2.2.3 Python/3.10.14   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/robots.txt">http://127.0.0.1:5000/robots.txt</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   | Werkzeug/2.2.3 Python/3.10.14   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/sitemap.xml">http://127.0.0.1:5000/sitemap.xml</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   | Werkzeug/2.2.3 Python/3.10.14   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users">http://127.0.0.1:5000/users</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   | Werkzeug/2.2.3 Python/3.10.14   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1">http://127.0.0.1:5000/users/v1</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   | Werkzeug/2.2.3 Python/3.10.14   |
| Other Info |   |

|            |   |
|------------|---|
| URL        | <a href="http://127.0.0.1:5000/users/v1/_debug">http://127.0.0.1:5000/users/v1/_debug</a>                   |
| Method     | GET   |
| Attack     |   |
| Evidence   | Werkzeug/2.2.3 Python/3.10.14   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/admin">http://127.0.0.1:5000/users/v1/admin</a>                     |
| Method     | GET   |
| Attack     |   |
| Evidence   | Werkzeug/2.2.3 Python/3.10.14   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/admin/email">http://127.0.0.1:5000/users/v1/admin/email</a>         |
| Method     | GET   |
| Attack     |   |
| Evidence   | Werkzeug/2.2.3 Python/3.10.14   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/admin/password">http://127.0.0.1:5000/users/v1/admin/password</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   | Werkzeug/2.2.3 Python/3.10.14   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/debug">http://127.0.0.1:5000/users/v1/debug</a>                     |
| Method     | GET   |
| Attack     |   |
| Evidence   | Werkzeug/2.2.3 Python/3.10.14   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/hacker">http://127.0.0.1:5000/users/v1/hacker</a>                   |
| Method     | GET   |
| Attack     |   |
| Evidence   | Werkzeug/2.2.3 Python/3.10.14   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/hacker/email">http://127.0.0.1:5000/users/v1/hacker/email</a>       |
| Method     | GET   |
| Attack     |   |
| Evidence   | Werkzeug/2.2.3 Python/3.10.14   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/hacker/password">http://127.0.0.1:5000/users/v1/hacker/password</a> |
|            |   |

|            |   |
|------------|---|
| Method     | GET   |
| Attack     |   |
| Evidence   | Werkzeug/2.2.3 Python/3.10.14   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/hacker2">http://127.0.0.1:5000/users/v1/hacker2</a>         |
| Method     | GET   |
| Attack     |   |
| Evidence   | Werkzeug/2.2.3 Python/3.10.14   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/login">http://127.0.0.1:5000/users/v1/login</a>             |
| Method     | GET   |
| Attack     |   |
| Evidence   | Werkzeug/2.2.3 Python/3.10.14   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/name1">http://127.0.0.1:5000/users/v1/name1</a>             |
| Method     | GET   |
| Attack     |   |
| Evidence   | Werkzeug/2.2.3 Python/3.10.14   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/name1/email">http://127.0.0.1:5000/users/v1/name1/email</a> |
| Method     | GET   |
| Attack     |   |
| Evidence   | Werkzeug/2.2.3 Python/3.10.14   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/name2">http://127.0.0.1:5000/users/v1/name2</a>             |
| Method     | GET   |
| Attack     |   |
| Evidence   | Werkzeug/2.2.3 Python/3.10.14   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/name2/email">http://127.0.0.1:5000/users/v1/name2/email</a> |
| Method     | GET   |
| Attack     |   |
| Evidence   | Werkzeug/2.2.3 Python/3.10.14   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/register">http://127.0.0.1:5000/users/v1/register</a>       |
| Method     | GET   |
| Attack     |   |

|            |   |
|------------|---|
| Evidence   | Werkzeug/2.2.3 Python/3.10.14   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/books/v1">http://127.0.0.1:5000/books/v1</a>                               |
| Method     | POST  |
| Attack     |   |
| Evidence   | Werkzeug/2.2.3 Python/3.10.14   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/login">http://127.0.0.1:5000/users/v1/login</a>                   |
| Method     | POST  |
| Attack     |   |
| Evidence   | Werkzeug/2.2.3 Python/3.10.14   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/name1/email">http://127.0.0.1:5000/users/v1/name1/email</a>       |
| Method     | POST  |
| Attack     |   |
| Evidence   | Werkzeug/2.2.3 Python/3.10.14   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/register">http://127.0.0.1:5000/users/v1/register</a>             |
| Method     | POST  |
| Attack     |   |
| Evidence   | Werkzeug/2.2.3 Python/3.10.14   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/admin/email">http://127.0.0.1:5000/users/v1/admin/email</a>       |
| Method     | PUT   |
| Attack     |   |
| Evidence   | Werkzeug/2.2.3 Python/3.10.14   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/admin/password">http://127.0.0.1:5000/users/v1/admin/password</a> |
| Method     | PUT   |
| Attack     |   |
| Evidence   | Werkzeug/2.2.3 Python/3.10.14   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/hacker/email">http://127.0.0.1:5000/users/v1/hacker/email</a>     |
| Method     | PUT   |
| Attack     |   |
| Evidence   | Werkzeug/2.2.3 Python/3.10.14   |
|            |   |

|            |   |
|------------|---|
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/hacker/password">http://127.0.0.1:5000/users/v1/hacker/password</a>   |
| Method     | PUT   |
| Attack     |   |
| Evidence   | Werkzeug/2.2.3 Python/3.10.14   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/name1/email">http://127.0.0.1:5000/users/v1/name1/email</a>   |
| Method     | PUT   |
| Attack     |   |
| Evidence   | Werkzeug/2.2.3 Python/3.10.14   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/name2/email">http://127.0.0.1:5000/users/v1/name2/email</a>   |
| Method     | PUT   |
| Attack     |   |
| Evidence   | Werkzeug/2.2.3 Python/3.10.14   |
| Other Info |   |
| Instances  | 60  |
| Solution   | Ensure that your web server, application server, load balancer, etc. is configured to suppress the "Server" header or provide generic details.  |
| Reference  | <a href="https://httpd.apache.org/docs/current/mod/core.html#servertokens">https://httpd.apache.org/docs/current/mod/core.html#servertokens</a><br><a href="https://learn.microsoft.com/en-us/previous-versions/msp-n-p/ff648552(v=pandp.10)">https://learn.microsoft.com/en-us/previous-versions/msp-n-p/ff648552(v=pandp.10)</a><br><a href="https://www.troyhunt.com/shhh-dont-let-your-response-headers/">https://www.troyhunt.com/shhh-dont-let-your-response-headers/</a> |
| CWE Id     | <a href="#">497</a>   |
| WASC Id    | 13  |
| Plugin Id  | <a href="#">10036</a>   |

|             |  |
|-------------|--|
| <b>Low</b>  | <b>X-Content-Type-Options Header Missing</b>   |
| Description | The Anti-MIME-Sniffing header X-Content-Type-Options was not set to 'nosniff'. This allows older versions of Internet Explorer and Chrome to perform MIME-sniffing on the response body, potentially causing the response body to be interpreted and displayed as a content type other than the declared content type. Current (early 2014) and legacy versions of Firefox will use the declared content type (if one is set), rather than performing MIME-sniffing. |
| URL         | <a href="http://127.0.0.1:5000/users/v1/hacker2">http://127.0.0.1:5000/users/v1/hacker2</a>  |
| Method      | DELETE   |
| Attack      |  |
| Evidence    |  |
| Other Info  | This issue still applies to error type pages (401, 403, 500, etc.) as those pages are often still affected by injection issues, in which case there is still concern for browsers sniffing pages away from their actual content type. At "High" threshold this scan rule will not alert on client or server error responses.   |
| URL         | <a href="http://127.0.0.1:5000">http://127.0.0.1:5000</a>  |
| Method      | GET  |
| Attack      |  |

|            |  |
|------------|--|
| Evidence   |  |
| Other Info | This issue still applies to error type pages (401, 403, 500, etc.) as those pages are often still affected by injection issues, in which case there is still concern for browsers sniffing pages away from their actual content type. At "High" threshold this scan rule will not alert on client or server error responses. |
| URL        | <a href="http://127.0.0.1:5000/">http://127.0.0.1:5000/</a>  |
| Method     | GET  |
| Attack     |  |
| Evidence   |  |
| Other Info | This issue still applies to error type pages (401, 403, 500, etc.) as those pages are often still affected by injection issues, in which case there is still concern for browsers sniffing pages away from their actual content type. At "High" threshold this scan rule will not alert on client or server error responses. |
| URL        | <a href="http://127.0.0.1:5000/books/v1">http://127.0.0.1:5000/books/v1</a>  |
| Method     | GET  |
| Attack     |  |
| Evidence   |  |
| Other Info | This issue still applies to error type pages (401, 403, 500, etc.) as those pages are often still affected by injection issues, in which case there is still concern for browsers sniffing pages away from their actual content type. At "High" threshold this scan rule will not alert on client or server error responses. |
| URL        | <a href="http://127.0.0.1:5000/books/v1?_debugger_=yes&amp;cmd=resource&amp;f=console.png">http://127.0.0.1:5000/books/v1?_debugger_=yes&amp;cmd=resource&amp;f=console.png</a>  |
| Method     | GET  |
| Attack     |  |
| Evidence   |  |
| Other Info | This issue still applies to error type pages (401, 403, 500, etc.) as those pages are often still affected by injection issues, in which case there is still concern for browsers sniffing pages away from their actual content type. At "High" threshold this scan rule will not alert on client or server error responses. |
| URL        | <a href="http://127.0.0.1:5000/books/v1?_debugger_=yes&amp;cmd=resource&amp;f=debugger.js">http://127.0.0.1:5000/books/v1?_debugger_=yes&amp;cmd=resource&amp;f=debugger.js</a>  |
| Method     | GET  |
| Attack     |  |
| Evidence   |  |
| Other Info | This issue still applies to error type pages (401, 403, 500, etc.) as those pages are often still affected by injection issues, in which case there is still concern for browsers sniffing pages away from their actual content type. At "High" threshold this scan rule will not alert on client or server error responses. |
| URL        | <a href="http://127.0.0.1:5000/books/v1?_debugger_=yes&amp;cmd=resource&amp;f=style.css">http://127.0.0.1:5000/books/v1?_debugger_=yes&amp;cmd=resource&amp;f=style.css</a>  |
| Method     | GET  |
| Attack     |  |
| Evidence   |  |
| Other Info | This issue still applies to error type pages (401, 403, 500, etc.) as those pages are often still affected by injection issues, in which case there is still concern for browsers sniffing pages away from their actual content type. At "High" threshold this scan rule will not alert on client or server error responses. |
| URL        | <a href="http://127.0.0.1:5000/books/v1?btn=Confirm+Pin&amp;pin=ZAP">http://127.0.0.1:5000/books/v1?btn=Confirm+Pin&amp;pin=ZAP</a>  |
| Method     | GET  |
| Attack     |  |
| Evidence   |  |

|            |  |
|------------|--|
| Other Info | This issue still applies to error type pages (401, 403, 500, etc.) as those pages are often still affected by injection issues, in which case there is still concern for browsers sniffing pages away from their actual content type. At "High" threshold this scan rule will not alert on client or server error responses. |
| URL        | <a href="http://127.0.0.1:5000/createdb">http://127.0.0.1:5000/createdb</a>  |
| Method     | GET  |
| Attack     |  |
| Evidence   |  |
| Other Info | This issue still applies to error type pages (401, 403, 500, etc.) as those pages are often still affected by injection issues, in which case there is still concern for browsers sniffing pages away from their actual content type. At "High" threshold this scan rule will not alert on client or server error responses. |
| URL        | <a href="http://127.0.0.1:5000/users/v1">http://127.0.0.1:5000/users/v1</a>  |
| Method     | GET  |
| Attack     |  |
| Evidence   |  |
| Other Info | This issue still applies to error type pages (401, 403, 500, etc.) as those pages are often still affected by injection issues, in which case there is still concern for browsers sniffing pages away from their actual content type. At "High" threshold this scan rule will not alert on client or server error responses. |
| URL        | <a href="http://127.0.0.1:5000/users/v1/_debug">http://127.0.0.1:5000/users/v1/_debug</a>  |
| Method     | GET  |
| Attack     |  |
| Evidence   |  |
| Other Info | This issue still applies to error type pages (401, 403, 500, etc.) as those pages are often still affected by injection issues, in which case there is still concern for browsers sniffing pages away from their actual content type. At "High" threshold this scan rule will not alert on client or server error responses. |
| URL        | <a href="http://127.0.0.1:5000/users/v1/admin">http://127.0.0.1:5000/users/v1/admin</a>  |
| Method     | GET  |
| Attack     |  |
| Evidence   |  |
| Other Info | This issue still applies to error type pages (401, 403, 500, etc.) as those pages are often still affected by injection issues, in which case there is still concern for browsers sniffing pages away from their actual content type. At "High" threshold this scan rule will not alert on client or server error responses. |
| URL        | <a href="http://127.0.0.1:5000/users/v1/name1">http://127.0.0.1:5000/users/v1/name1</a>  |
| Method     | GET  |
| Attack     |  |
| Evidence   |  |
| Other Info | This issue still applies to error type pages (401, 403, 500, etc.) as those pages are often still affected by injection issues, in which case there is still concern for browsers sniffing pages away from their actual content type. At "High" threshold this scan rule will not alert on client or server error responses. |
| URL        | <a href="http://127.0.0.1:5000/users/v1/name2">http://127.0.0.1:5000/users/v1/name2</a>  |
| Method     | GET  |
| Attack     |  |
| Evidence   |  |

|            |  |
|------------|--|
| Other Info | This issue still applies to error type pages (401, 403, 500, etc.) as those pages are often still affected by injection issues, in which case there is still concern for browsers sniffing pages away from their actual content type. At "High" threshold this scan rule will not alert on client or server error responses.   |
| URL        | <a href="http://127.0.0.1:5000/books/v1">http://127.0.0.1:5000/books/v1</a>  |
| Method     | POST   |
| Attack     |  |
| Evidence   |  |
| Other Info | This issue still applies to error type pages (401, 403, 500, etc.) as those pages are often still affected by injection issues, in which case there is still concern for browsers sniffing pages away from their actual content type. At "High" threshold this scan rule will not alert on client or server error responses.   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/login">http://127.0.0.1:5000/users/v1/login</a>  |
| Method     | POST   |
| Attack     |  |
| Evidence   |  |
| Other Info | This issue still applies to error type pages (401, 403, 500, etc.) as those pages are often still affected by injection issues, in which case there is still concern for browsers sniffing pages away from their actual content type. At "High" threshold this scan rule will not alert on client or server error responses.   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/register">http://127.0.0.1:5000/users/v1/register</a>  |
| Method     | POST   |
| Attack     |  |
| Evidence   |  |
| Other Info | This issue still applies to error type pages (401, 403, 500, etc.) as those pages are often still affected by injection issues, in which case there is still concern for browsers sniffing pages away from their actual content type. At "High" threshold this scan rule will not alert on client or server error responses.   |
| Instances  | 17   |
| Solution   | <p>Ensure that the application/web server sets the Content-Type header appropriately, and that it sets the X-Content-Type-Options header to 'nosniff' for all web pages.</p> <p>If possible, ensure that the end user uses a standards-compliant and modern web browser that does not perform MIME-sniffing at all, or that can be directed by the web application /web server to not perform MIME-sniffing.</p> |
| Reference  | <a href="https://learn.microsoft.com/en-us/previous-versions/windows/internet-explorer/ie-developer/compatibility/gg622941(v=vs.85)">https://learn.microsoft.com/en-us/previous-versions/windows/internet-explorer/ie-developer/compatibility/gg622941(v=vs.85)</a><br><a href="https://owasp.org/www-community/Security-Headers">https://owasp.org/www-community/Security-Headers</a>                           |
| CWE Id     | <a href="#">693</a>  |
| WASC Id    | 15   |
| Plugin Id  | <a href="#">10021</a>  |

| Informational | Authentication Request Identified  |
|---------------|--|
| Description   | The given request has been identified as an authentication request. The 'Other Info' field contains a set of key=value lines which identify any relevant fields. If the request is in a context which has an Authentication Method set to "Auto-Detect" then this rule will change the authentication to match the request identified. |
| URL           | <a href="http://127.0.0.1:5000/users/v1/login">http://127.0.0.1:5000/users/v1/login</a>  |
| Method        | POST   |
| Attack        |  |
| Evidence      | password   |



|            |   |
|------------|---|
| Other Info | userParam=username userValue=admin passwordParam=password   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/login">http://127.0.0.1:5000/users/v1/login</a>   |
| Method     | POST  |
| Attack     |   |
| Evidence   | password  |
| Other Info | userParam=username userValue=hacker passwordParam=password  |
| URL        | <a href="http://127.0.0.1:5000/users/v1/login">http://127.0.0.1:5000/users/v1/login</a>   |
| Method     | POST  |
| Attack     |   |
| Evidence   | password  |
| Other Info | userParam=username userValue=name1 passwordParam=password   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/login">http://127.0.0.1:5000/users/v1/login</a>   |
| Method     | POST  |
| Attack     |   |
| Evidence   | password  |
| Other Info | userParam=username userValue=teste de usuario passwordParam=password  |
| Instances  | 4   |
| Solution   | This is an informational alert rather than a vulnerability and so there is nothing to fix.  |
| Reference  | <a href="https://www.zaproxy.org/docs/desktop/addons/authentication-helper/auth-req-id/">https://www.zaproxy.org/docs/desktop/addons/authentication-helper/auth-req-id/</a> |
| CWE Id     |   |
| WASC Id    |   |
| Plugin Id  | <a href="#">10111</a>   |

| Informational | Base64 Disclosure  |
|---------------|--|
| Description   | Base64 encoded data was disclosed by the application/web server. Note: in the interests of performance not all base64 strings in the response were analyzed individually, the entire response should be looked at by the analyst/security team/developer(s). |
| URL           | <a href="http://127.0.0.1:5000/books/v1">http://127.0.0.1:5000/books/v1</a>  |
| Method        | GET  |
| Attack        |  |
| Evidence      | /home/kali/VAmPI/venv310/lib/python3   |
| Other Info    | \x001a&{\x001a/\x0002c}tX  |
| URL           | <a href="http://127.0.0.1:5000/users/v1/login">http://127.0.0.1:5000/users/v1/login</a>  |
| Method        | POST   |
| Attack        |  |
| Evidence      | eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9   |
| Other Info    | {"alg":"HS256","typ":"JWT"}  |
| Instances     | 2  |
| Solution      | Manually confirm that the Base64 data does not leak sensitive information, and that the data cannot be aggregated/used to exploit other vulnerabilities.   |

|           |   |
|-----------|---|
| Reference | <a href="https://projects.webappsec.org/w/page/13246936/Information%20Leakage">https://projects.webappsec.org/w/page/13246936/Information%20Leakage</a> |
| CWE Id    | <a href="#">319</a>   |
| WASC Id   | 13  |
| Plugin Id | <a href="#">10094</a>   |

| Informational | Information Disclosure - Suspicious Comments   |
|---------------|--|
| Description   | The response appears to contain suspicious comments which may help an attacker.  |
| URL           | <a href="http://127.0.0.1:5000/books/v1?_debugger_=yes&amp;cmd=resource&amp;f=debugger.js">http://127.0.0.1:5000/books/v1?_debugger_=yes&amp;cmd=resource&amp;f=debugger.js</a>  |
| Method        | GET  |
| Attack        |  |
| Evidence      | from   |
| Other Info    | The following pattern was used: \bFROM\b and was detected in likely comment: "// Prevent page from refreshing.", see evidence field for the suspicious comment/snippet.  |
| URL           | <a href="http://127.0.0.1:5000/books/v1">http://127.0.0.1:5000/books/v1</a>  |
| Method        | GET  |
| Attack        |  |
| Evidence      | query  |
| Other Info    | The following pattern was used: \bQUERY\b and was detected in likely comment: "<!-- Traceback (most recent call last): File "/home/kali/VAmPI/venv310/lib/python3.10/site-packages/flask/app.py", line 2548," , see evidence field for the suspicious comment/snippet. |
| Instances     | 2  |
| Solution      | Remove all comments that return information that may help an attacker and fix any underlying problems they refer to.   |
| Reference     |  |
| CWE Id        | <a href="#">615</a>  |
| WASC Id       | 13   |
| Plugin Id     | <a href="#">10027</a>  |

| Informational | Modern Web Application   |
|---------------|--|
| Description   | The application appears to be a modern web application. If you need to explore it automatically then the Ajax Spider may well be more effective than the standard one. |
| URL           | <a href="http://127.0.0.1:5000/books/v1">http://127.0.0.1:5000/books/v1</a>  |
| Method        | GET  |
| Attack        |  |
| Evidence      | <script src="?__debugger__=yes&cmd=resource&f=debugger.js"></script>   |
| Other Info    | No links have been found while there are scripts, which is an indication that this is a modern web application.  |
| Instances     | 1  |
| Solution      | This is an informational alert and so no changes are required.   |
| Reference     |  |
| CWE Id        |  |
| WASC Id       |  |
| Plugin Id     | <a href="#">10109</a>  |

| Informational | Non-Storable Content |
|---------------|----------------------|
|               |                      |

|             |   |
|-------------|---|
| Description | The response contents are not storable by caching components such as proxy servers. If the response does not contain sensitive, personal or user-specific information, it may benefit from being stored and cached, to improve performance. |
| URL         | <a href="http://127.0.0.1:5000/users/v1/hacker2">http://127.0.0.1:5000/users/v1/hacker2</a>   |
| Method      | DELETE  |
| Attack      |   |
| Evidence    | DELETE  |
| Other Info  |   |
| URL         | <a href="http://127.0.0.1:5000/users/v1/name2">http://127.0.0.1:5000/users/v1/name2</a>   |
| Method      | DELETE  |
| Attack      |   |
| Evidence    | DELETE  |
| Other Info  |   |
| URL         | <a href="http://127.0.0.1:5000/books/v1">http://127.0.0.1:5000/books/v1</a>   |
| Method      | GET   |
| Attack      |   |
| Evidence    | 500   |
| Other Info  |   |
| URL         | <a href="http://127.0.0.1:5000/createdb">http://127.0.0.1:5000/createdb</a>   |
| Method      | GET   |
| Attack      |   |
| Evidence    | authorization:  |
| Other Info  |   |
| URL         | <a href="http://127.0.0.1:5000/debug">http://127.0.0.1:5000/debug</a>   |
| Method      | GET   |
| Attack      |   |
| Evidence    | authorization:  |
| Other Info  |   |
| URL         | <a href="http://127.0.0.1:5000/users/v1/name2">http://127.0.0.1:5000/users/v1/name2</a>   |
| Method      | GET   |
| Attack      |   |
| Evidence    | authorization:  |
| Other Info  |   |
| URL         | <a href="http://127.0.0.1:5000/books/v1">http://127.0.0.1:5000/books/v1</a>   |
| Method      | POST  |
| Attack      |   |
| Evidence    | authorization:  |
| Other       |   |

|            |   |
|------------|---|
| Info       |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/name1/email">http://127.0.0.1:5000/users/v1/name1/email</a>         |
| Method     | POST  |
| Attack     |   |
| Evidence   | authorization:  |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/register">http://127.0.0.1:5000/users/v1/register</a>               |
| Method     | POST  |
| Attack     |   |
| Evidence   | 400   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/register">http://127.0.0.1:5000/users/v1/register</a>               |
| Method     | POST  |
| Attack     |   |
| Evidence   | authorization:  |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/admin/email">http://127.0.0.1:5000/users/v1/admin/email</a>         |
| Method     | PUT   |
| Attack     |   |
| Evidence   | PUT   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/admin/password">http://127.0.0.1:5000/users/v1/admin/password</a>   |
| Method     | PUT   |
| Attack     |   |
| Evidence   | PUT   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/hacker/email">http://127.0.0.1:5000/users/v1/hacker/email</a>       |
| Method     | PUT   |
| Attack     |   |
| Evidence   | PUT   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/hacker/password">http://127.0.0.1:5000/users/v1/hacker/password</a> |
| Method     | PUT   |
| Attack     |   |
| Evidence   | PUT   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/name1/email">http://127.0.0.1:5000/users/v1/name1/email</a>         |

|                      |  |
|----------------------|--|
| Method               | PUT  |
| Attack               |  |
| Evidence             | PUT  |
| Other Info           |  |
| URL                  | <a href="http://127.0.0.1:5000/users/v1/name2/email">http://127.0.0.1:5000/users/v1/name2/email</a>  |
| Method               | PUT  |
| Attack               |  |
| Evidence             | PUT  |
| Other Info           |  |
| Instances            | 16   |
| Solution             | <p>The content may be marked as storable by ensuring that the following conditions are satisfied:</p> <p>The request method must be understood by the cache and defined as being cacheable ("GET", "HEAD", and "POST" are currently defined as cacheable)</p> <p>The response status code must be understood by the cache (one of the 1XX, 2XX, 3XX, 4XX, or 5XX response classes are generally understood)</p> <p>The "no-store" cache directive must not appear in the request or response header fields</p> <p>For caching by "shared" caches such as "proxy" caches, the "private" response directive must not appear in the response</p> <p>For caching by "shared" caches such as "proxy" caches, the "Authorization" header field must not appear in the request, unless the response explicitly allows it (using one of the "must-revalidate", "public", or "s-maxage" Cache-Control response directives)</p> <p>In addition to the conditions above, at least one of the following conditions must also be satisfied by the response:</p> <p>It must contain an "Expires" header field</p> <p>It must contain a "max-age" response directive</p> <p>For "shared" caches such as "proxy" caches, it must contain a "s-maxage" response directive</p> <p>It must contain a "Cache Control Extension" that allows it to be cached</p> <p>It must have a status code that is defined as cacheable by default (200, 203, 204, 206, 300, 301, 404, 405, 410, 414, 501).</p> |
| Reference            | <a href="https://datatracker.ietf.org/doc/html/rfc7234">https://datatracker.ietf.org/doc/html/rfc7234</a><br><a href="https://datatracker.ietf.org/doc/html/rfc7231">https://datatracker.ietf.org/doc/html/rfc7231</a><br><a href="https://www.w3.org/Protocols/rfc2616/rfc2616-sec13.html">https://www.w3.org/Protocols/rfc2616/rfc2616-sec13.html</a>  |
| CWE Id               | <a href="#">524</a>  |
| WASC Id              | 13   |
| Plugin Id            | <a href="#">10049</a>  |
| <b>Informational</b> | <b>Sec-Fetch-Dest Header is Missing</b>  |
| Description          | Specifies how and where the data would be used. For instance, if the value is audio, then the requested resource must be audio data and not any other type of resource.  |
| URL                  | <a href="http://127.0.0.1:5000/users/v1/hacker2">http://127.0.0.1:5000/users/v1/hacker2</a>  |
| Method               | DELETE   |

|            |   |
|------------|---|
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/name2">http://127.0.0.1:5000/users/v1/name2</a>   |
| Method     | DELETE  |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000">http://127.0.0.1:5000</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/">http://127.0.0.1:5000/</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/books">http://127.0.0.1:5000/books</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/books/v1">http://127.0.0.1:5000/books/v1</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/books/v1?_debugger_=yes&amp;cmd=resource&amp;f=console.png">http://127.0.0.1:5000/books/v1?_debugger_=yes&amp;cmd=resource&amp;f=console.png</a> |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/books/v1?_debugger_=yes&amp;cmd=resource&amp;f=debugger.js">http://127.0.0.1:5000/books/v1?_debugger_=yes&amp;cmd=resource&amp;f=debugger.js</a> |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |

|            |   |
|------------|---|
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/books/v1?_debugger_=yes&amp;cmd=resource&amp;f=style.css">http://127.0.0.1:5000/books/v1?_debugger_=yes&amp;cmd=resource&amp;f=style.css</a> |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/books/v1?btn=Confirm+Pin&amp;pin=ZAP">http://127.0.0.1:5000/books/v1?btn=Confirm+Pin&amp;pin=ZAP</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/createdb">http://127.0.0.1:5000/createdb</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/debug">http://127.0.0.1:5000/debug</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/favicon.ico">http://127.0.0.1:5000/favicon.ico</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/home">http://127.0.0.1:5000/home</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/home/kali">http://127.0.0.1:5000/home/kali</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |

|            |   |
|------------|---|
| URL        | <a href="http://127.0.0.1:5000/home/kali/VAmPI">http://127.0.0.1:5000/home/kali/VAmPI</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/home/kali/VAmPI/api_views">http://127.0.0.1:5000/home/kali/VAmPI/api_views</a>                           |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/home/kali/VAmPI/api_views/books.py">http://127.0.0.1:5000/home/kali/VAmPI/api_views/books.py</a>         |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/home/kali/VAmPI/models">http://127.0.0.1:5000/home/kali/VAmPI/models</a>                                 |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/home/kali/VAmPI/models/books_model.py">http://127.0.0.1:5000/home/kali/VAmPI/models/books_model.py</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/home/kali/VAmPI/venv310">http://127.0.0.1:5000/home/kali/VAmPI/venv310</a>                               |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib">http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib</a>                       |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10">http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10</a> |
| Method     | GET   |



|            |   |
|------------|---|
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10/site-packages">http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10/site-packages</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10/site-packages/connexion">http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10/site-packages/connexion</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10/site-packages/connexion/decorators">http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10/site-packages/connexion/decorators</a>                               |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10/site-packages/connexion/decorators/decorator.py">http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10/site-packages/connexion/decorators/decorator.py</a>     |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10/site-packages/connexion/decorators/parameter.py">http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10/site-packages/connexion/decorators/parameter.py</a>     |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10/site-packages/connexion/decorators/uri_parsing.py">http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10/site-packages/connexion/decorators/uri_parsing.py</a> |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10/site-packages/flask">http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10/site-packages/flask</a>   |
|            |   |

|            |   |
|------------|---|
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10/site-packages/flask/app.py">http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10/site-packages/flask/app.py</a> |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/robots.txt">http://127.0.0.1:5000/robots.txt</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/sitemap.xml">http://127.0.0.1:5000/sitemap.xml</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users">http://127.0.0.1:5000/users</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1">http://127.0.0.1:5000/users/v1</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/_debug">http://127.0.0.1:5000/users/v1/_debug</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/admin">http://127.0.0.1:5000/users/v1/admin</a>   |
| Method     | GET   |
| Attack     |   |

|            |   |
|------------|---|
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/admin/email">http://127.0.0.1:5000/users/v1/admin/email</a>         |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/admin/password">http://127.0.0.1:5000/users/v1/admin/password</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/debug">http://127.0.0.1:5000/users/v1/debug</a>                     |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/hacker">http://127.0.0.1:5000/users/v1/hacker</a>                   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/hacker/email">http://127.0.0.1:5000/users/v1/hacker/email</a>       |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/hacker/password">http://127.0.0.1:5000/users/v1/hacker/password</a> |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/hacker2">http://127.0.0.1:5000/users/v1/hacker2</a>                 |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
|            |   |

|            |   |
|------------|---|
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/login">http://127.0.0.1:5000/users/v1/login</a>             |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/name1">http://127.0.0.1:5000/users/v1/name1</a>             |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/name1/email">http://127.0.0.1:5000/users/v1/name1/email</a> |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/name2">http://127.0.0.1:5000/users/v1/name2</a>             |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/name2/email">http://127.0.0.1:5000/users/v1/name2/email</a> |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/register">http://127.0.0.1:5000/users/v1/register</a>       |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/books/v1">http://127.0.0.1:5000/books/v1</a>                         |
| Method     | POST  |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
|            |   |

|            |   |
|------------|---|
| URL        | <a href="http://127.0.0.1:5000/users/v1/login">http://127.0.0.1:5000/users/v1/login</a>                     |
| Method     | POST  |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/name1/email">http://127.0.0.1:5000/users/v1/name1/email</a>         |
| Method     | POST  |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/register">http://127.0.0.1:5000/users/v1/register</a>               |
| Method     | POST  |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/admin/email">http://127.0.0.1:5000/users/v1/admin/email</a>         |
| Method     | PUT   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/admin/password">http://127.0.0.1:5000/users/v1/admin/password</a>   |
| Method     | PUT   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/hacker/email">http://127.0.0.1:5000/users/v1/hacker/email</a>       |
| Method     | PUT   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/hacker/password">http://127.0.0.1:5000/users/v1/hacker/password</a> |
| Method     | PUT   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/name1/email">http://127.0.0.1:5000/users/v1/name1/email</a>         |
| Method     | PUT   |

|            |   |
|------------|---|
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/name2/email">http://127.0.0.1:5000/users/v1/name2/email</a>   |
| Method     | PUT   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| Instances  | 60  |
| Solution   | Ensure that Sec-Fetch-Dest header is included in request headers.   |
| Reference  | <a href="https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/Sec-Fetch-Dest">https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/Sec-Fetch-Dest</a> |
| CWE Id     | <a href="#">352</a>   |
| WASC Id    | 9   |
| Plugin Id  | <a href="#">90005</a>   |

| Informational | Sec-Fetch-Mode Header is Missing  |
|---------------|---|
| Description   | Allows to differentiate between requests for navigating between HTML pages and requests for loading resources like images, audio etc. |
| URL           | <a href="http://127.0.0.1:5000/users/v1/hacker2">http://127.0.0.1:5000/users/v1/hacker2</a>   |
| Method        | DELETE  |
| Attack        |   |
| Evidence      |   |
| Other Info    |   |
| URL           | <a href="http://127.0.0.1:5000/users/v1/name2">http://127.0.0.1:5000/users/v1/name2</a>   |
| Method        | DELETE  |
| Attack        |   |
| Evidence      |   |
| Other Info    |   |
| URL           | <a href="http://127.0.0.1:5000">http://127.0.0.1:5000</a>   |
| Method        | GET   |
| Attack        |   |
| Evidence      |   |
| Other Info    |   |
| URL           | <a href="http://127.0.0.1:5000/">http://127.0.0.1:5000/</a>   |
| Method        | GET   |
| Attack        |   |
| Evidence      |   |
| Other Info    |   |
| URL           | <a href="http://127.0.0.1:5000/books">http://127.0.0.1:5000/books</a>   |

|            |   |
|------------|---|
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/books/v1">http://127.0.0.1:5000/books/v1</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/books/v1?_debugger_=yes&amp;cmd=resource&amp;f=console.png">http://127.0.0.1:5000/books/v1?_debugger_=yes&amp;cmd=resource&amp;f=console.png</a> |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/books/v1?_debugger_=yes&amp;cmd=resource&amp;f=debugger.js">http://127.0.0.1:5000/books/v1?_debugger_=yes&amp;cmd=resource&amp;f=debugger.js</a> |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/books/v1?_debugger_=yes&amp;cmd=resource&amp;f=style.css">http://127.0.0.1:5000/books/v1?_debugger_=yes&amp;cmd=resource&amp;f=style.css</a>     |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/books/v1?btn=Confirm+Pin&amp;pin=ZAP">http://127.0.0.1:5000/books/v1?btn=Confirm+Pin&amp;pin=ZAP</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/createdb">http://127.0.0.1:5000/createdb</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/debug">http://127.0.0.1:5000/debug</a>   |
| Method     | GET   |
|            |   |

|            |   |
|------------|---|
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/favicon.ico">http://127.0.0.1:5000/favicon.ico</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/home">http://127.0.0.1:5000/home</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/home/kali">http://127.0.0.1:5000/home/kali</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/home/kali/VAmPI">http://127.0.0.1:5000/home/kali/VAmPI</a>                                       |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/home/kali/VAmPI/api_views">http://127.0.0.1:5000/home/kali/VAmPI/api_views</a>                   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/home/kali/VAmPI/api_views/books.py">http://127.0.0.1:5000/home/kali/VAmPI/api_views/books.py</a> |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/home/kali/VAmPI/models">http://127.0.0.1:5000/home/kali/VAmPI/models</a>                         |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |



|            |   |
|------------|---|
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/home/kali/VAmPI/models/books_model.py">http://127.0.0.1:5000/home/kali/VAmPI/models/books_model.py</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/home/kali/VAmPI/venv310">http://127.0.0.1:5000/home/kali/VAmPI/venv310</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib">http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10">http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10/site-packages">http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10/site-packages</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10/site-packages/connexion">http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10/site-packages/connexion</a>                       |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10/site-packages/connexion/decorators">http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10/site-packages/connexion/decorators</a> |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other      |   |

|            |   |
|------------|---|
| Info       |   |
| URL        | <a href="http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10/site-packages/connexion/decorators/decorator.py">http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10/site-packages/connexion/decorators/decorator.py</a>     |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10/site-packages/connexion/decorators/parameter.py">http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10/site-packages/connexion/decorators/parameter.py</a>     |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10/site-packages/connexion/decorators/uri_parsing.py">http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10/site-packages/connexion/decorators/uri_parsing.py</a> |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10/site-packages/flask">http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10/site-packages/flask</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10/site-packages/flask/app.py">http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10/site-packages/flask/app.py</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/robots.txt">http://127.0.0.1:5000/robots.txt</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/sitemap.xml">http://127.0.0.1:5000/sitemap.xml</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other      |   |

|            |   |
|------------|---|
| Info       |   |
| URL        | <a href="http://127.0.0.1:5000/users">http://127.0.0.1:5000/users</a>                                     |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1">http://127.0.0.1:5000/users/v1</a>                               |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/_debug">http://127.0.0.1:5000/users/v1/_debug</a>                 |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/admin">http://127.0.0.1:5000/users/v1/admin</a>                   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/admin/email">http://127.0.0.1:5000/users/v1/admin/email</a>       |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/admin/password">http://127.0.0.1:5000/users/v1/admin/password</a> |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/debug">http://127.0.0.1:5000/users/v1/debug</a>                   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/hacker">http://127.0.0.1:5000/users/v1/hacker</a>                 |

|            |   |
|------------|---|
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/hacker/email">http://127.0.0.1:5000/users/v1/hacker/email</a>       |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/hacker/password">http://127.0.0.1:5000/users/v1/hacker/password</a> |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/hacker2">http://127.0.0.1:5000/users/v1/hacker2</a>                 |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/login">http://127.0.0.1:5000/users/v1/login</a>                     |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/name1">http://127.0.0.1:5000/users/v1/name1</a>                     |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/name1/email">http://127.0.0.1:5000/users/v1/name1/email</a>         |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/name2">http://127.0.0.1:5000/users/v1/name2</a>                     |
| Method     | GET   |
|            |   |

|            |   |
|------------|---|
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/name2/email">http://127.0.0.1:5000/users/v1/name2/email</a> |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/register">http://127.0.0.1:5000/users/v1/register</a>       |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/books/v1">http://127.0.0.1:5000/books/v1</a>                         |
| Method     | POST  |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/login">http://127.0.0.1:5000/users/v1/login</a>             |
| Method     | POST  |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/name1/email">http://127.0.0.1:5000/users/v1/name1/email</a> |
| Method     | POST  |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/register">http://127.0.0.1:5000/users/v1/register</a>       |
| Method     | POST  |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/admin/email">http://127.0.0.1:5000/users/v1/admin/email</a> |
| Method     | PUT   |
| Attack     |   |
| Evidence   |   |

|            |   |
|------------|---|
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/admin/password">http://127.0.0.1:5000/users/v1/admin/password</a>   |
| Method     | PUT   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/hacker/email">http://127.0.0.1:5000/users/v1/hacker/email</a>   |
| Method     | PUT   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/hacker/password">http://127.0.0.1:5000/users/v1/hacker/password</a>   |
| Method     | PUT   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/name1/email">http://127.0.0.1:5000/users/v1/name1/email</a>   |
| Method     | PUT   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/name2/email">http://127.0.0.1:5000/users/v1/name2/email</a>   |
| Method     | PUT   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| Instances  | 60  |
| Solution   | Ensure that Sec-Fetch-Mode header is included in request headers.   |
| Reference  | <a href="https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/Sec-Fetch-Mode">https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/Sec-Fetch-Mode</a> |
| CWE Id     | <a href="#">352</a>   |
| WASC Id    | 9   |
| Plugin Id  | <a href="#">90005</a>   |

|                      |   |
|----------------------|---|
| <b>Informational</b> | <b>Sec-Fetch-Site Header is Missing</b>   |
| Description          | Specifies the relationship between request initiator's origin and target's origin.          |
| URL                  | <a href="http://127.0.0.1:5000/users/v1/hacker2">http://127.0.0.1:5000/users/v1/hacker2</a> |
| Method               | DELETE  |
| Attack               |   |
|                      |   |

|            |   |
|------------|---|
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/name2">http://127.0.0.1:5000/users/v1/name2</a>   |
| Method     | DELETE  |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000">http://127.0.0.1:5000</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/">http://127.0.0.1:5000/</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/books">http://127.0.0.1:5000/books</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/books/v1">http://127.0.0.1:5000/books/v1</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/books/v1?_debugger_=yes&amp;cmd=resource&amp;f=console.png">http://127.0.0.1:5000/books/v1?_debugger_=yes&amp;cmd=resource&amp;f=console.png</a> |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/books/v1?_debugger_=yes&amp;cmd=resource&amp;f=debugger.js">http://127.0.0.1:5000/books/v1?_debugger_=yes&amp;cmd=resource&amp;f=debugger.js</a> |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other      |   |

|            |   |
|------------|---|
| Info       |   |
| URL        | <a href="http://127.0.0.1:5000/books/v1?_debugger_=yes&amp;cmd=resource&amp;f=style.css">http://127.0.0.1:5000/books/v1?_debugger_=yes&amp;cmd=resource&amp;f=style.css</a> |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/books/v1?btn=Confirm+Pin&amp;pin=ZAP">http://127.0.0.1:5000/books/v1?btn=Confirm+Pin&amp;pin=ZAP</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/createdb">http://127.0.0.1:5000/createdb</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/debug">http://127.0.0.1:5000/debug</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/favicon.ico">http://127.0.0.1:5000/favicon.ico</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/home">http://127.0.0.1:5000/home</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/home/kali">http://127.0.0.1:5000/home/kali</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/home/kali/VAmPI">http://127.0.0.1:5000/home/kali/VAmPI</a>   |



|            |   |
|------------|---|
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/home/kali/VAmPI/api_views">http://127.0.0.1:5000/home/kali/VAmPI/api_views</a>                           |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/home/kali/VAmPI/api_views/books.py">http://127.0.0.1:5000/home/kali/VAmPI/api_views/books.py</a>         |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/home/kali/VAmPI/models">http://127.0.0.1:5000/home/kali/VAmPI/models</a>                                 |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/home/kali/VAmPI/models/books_model.py">http://127.0.0.1:5000/home/kali/VAmPI/models/books_model.py</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/home/kali/VAmPI/venv310">http://127.0.0.1:5000/home/kali/VAmPI/venv310</a>                               |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib">http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib</a>                       |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10">http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10</a> |
| Method     | GET   |
|            |   |

|            |   |
|------------|---|
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10/site-packages">http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10/site-packages</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10/site-packages/connexion">http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10/site-packages/connexion</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10/site-packages/connexion/decorators">http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10/site-packages/connexion/decorators</a>                               |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10/site-packages/connexion/decorators/decorator.py">http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10/site-packages/connexion/decorators/decorator.py</a>     |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10/site-packages/connexion/decorators/parameter.py">http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10/site-packages/connexion/decorators/parameter.py</a>     |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10/site-packages/connexion/decorators/uri_parsing.py">http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10/site-packages/connexion/decorators/uri_parsing.py</a> |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10/site-packages/flask">http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10/site-packages/flask</a>   |
| Method     | GET   |

|            |   |
|------------|---|
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10/site-packages/flask/app.py">http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10/site-packages/flask/app.py</a> |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/robots.txt">http://127.0.0.1:5000/robots.txt</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/sitemap.xml">http://127.0.0.1:5000/sitemap.xml</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users">http://127.0.0.1:5000/users</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1">http://127.0.0.1:5000/users/v1</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/_debug">http://127.0.0.1:5000/users/v1/_debug</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/admin">http://127.0.0.1:5000/users/v1/admin</a>   |
| Method     | GET   |
| Attack     |   |
|            |   |

|            |   |
|------------|---|
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/admin/email">http://127.0.0.1:5000/users/v1/admin/email</a>         |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/admin/password">http://127.0.0.1:5000/users/v1/admin/password</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/debug">http://127.0.0.1:5000/users/v1/debug</a>                     |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/hacker">http://127.0.0.1:5000/users/v1/hacker</a>                   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/hacker/email">http://127.0.0.1:5000/users/v1/hacker/email</a>       |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/hacker/password">http://127.0.0.1:5000/users/v1/hacker/password</a> |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/hacker2">http://127.0.0.1:5000/users/v1/hacker2</a>                 |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other      |   |

|            |   |
|------------|---|
| Info       |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/login">http://127.0.0.1:5000/users/v1/login</a>             |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/name1">http://127.0.0.1:5000/users/v1/name1</a>             |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/name1/email">http://127.0.0.1:5000/users/v1/name1/email</a> |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/name2">http://127.0.0.1:5000/users/v1/name2</a>             |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/name2/email">http://127.0.0.1:5000/users/v1/name2/email</a> |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/register">http://127.0.0.1:5000/users/v1/register</a>       |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/books/v1">http://127.0.0.1:5000/books/v1</a>                         |
| Method     | POST  |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/login">http://127.0.0.1:5000/users/v1/login</a>             |

|            |   |
|------------|---|
| Method     | POST  |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/name1/email">http://127.0.0.1:5000/users/v1/name1/email</a>         |
| Method     | POST  |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/register">http://127.0.0.1:5000/users/v1/register</a>               |
| Method     | POST  |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/admin/email">http://127.0.0.1:5000/users/v1/admin/email</a>         |
| Method     | PUT   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/admin/password">http://127.0.0.1:5000/users/v1/admin/password</a>   |
| Method     | PUT   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/hacker/email">http://127.0.0.1:5000/users/v1/hacker/email</a>       |
| Method     | PUT   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/hacker/password">http://127.0.0.1:5000/users/v1/hacker/password</a> |
| Method     | PUT   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/name1/email">http://127.0.0.1:5000/users/v1/name1/email</a>         |
| Method     | PUT   |
|            |   |

|            |   |
|------------|---|
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/name2/email">http://127.0.0.1:5000/users/v1/name2/email</a>   |
| Method     | PUT   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| Instances  | 60  |
| Solution   | Ensure that Sec-Fetch-Site header is included in request headers.   |
| Reference  | <a href="https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/Sec-Fetch-Site">https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/Sec-Fetch-Site</a> |
| CWE Id     | <a href="#">352</a>   |
| WASC Id    | 9   |
| Plugin Id  | <a href="#">90005</a>   |

| Informational | Sec-Fetch-User Header is Missing  |
|---------------|---|
| Description   | Specifies if a navigation request was initiated by a user.                                  |
| URL           | <a href="http://127.0.0.1:5000/users/v1/hacker2">http://127.0.0.1:5000/users/v1/hacker2</a> |
| Method        | DELETE  |
| Attack        |   |
| Evidence      |   |
| Other Info    |   |
| URL           | <a href="http://127.0.0.1:5000/users/v1/name2">http://127.0.0.1:5000/users/v1/name2</a>     |
| Method        | DELETE  |
| Attack        |   |
| Evidence      |   |
| Other Info    |   |
| URL           | <a href="http://127.0.0.1:5000">http://127.0.0.1:5000</a>                                   |
| Method        | GET   |
| Attack        |   |
| Evidence      |   |
| Other Info    |   |
| URL           | <a href="http://127.0.0.1:5000/">http://127.0.0.1:5000/</a>                                 |
| Method        | GET   |
| Attack        |   |
| Evidence      |   |
| Other Info    |   |
| URL           | <a href="http://127.0.0.1:5000/books">http://127.0.0.1:5000/books</a>                       |
|               |   |

|            |   |
|------------|---|
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/books/v1">http://127.0.0.1:5000/books/v1</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/books/v1?_debugger_=yes&amp;cmd=resource&amp;f=console.png">http://127.0.0.1:5000/books/v1?_debugger_=yes&amp;cmd=resource&amp;f=console.png</a> |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/books/v1?_debugger_=yes&amp;cmd=resource&amp;f=debugger.js">http://127.0.0.1:5000/books/v1?_debugger_=yes&amp;cmd=resource&amp;f=debugger.js</a> |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/books/v1?_debugger_=yes&amp;cmd=resource&amp;f=style.css">http://127.0.0.1:5000/books/v1?_debugger_=yes&amp;cmd=resource&amp;f=style.css</a>     |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/books/v1?btn=Confirm+Pin&amp;pin=ZAP">http://127.0.0.1:5000/books/v1?btn=Confirm+Pin&amp;pin=ZAP</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/createdb">http://127.0.0.1:5000/createdb</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/debug">http://127.0.0.1:5000/debug</a>   |
| Method     | GET   |
| Attack     |   |



|            |   |
|------------|---|
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/favicon.ico">http://127.0.0.1:5000/favicon.ico</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/home">http://127.0.0.1:5000/home</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/home/kali">http://127.0.0.1:5000/home/kali</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/home/kali/VAmPI">http://127.0.0.1:5000/home/kali/VAmPI</a>                                       |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/home/kali/VAmPI/api_views">http://127.0.0.1:5000/home/kali/VAmPI/api_views</a>                   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/home/kali/VAmPI/api_views/books.py">http://127.0.0.1:5000/home/kali/VAmPI/api_views/books.py</a> |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/home/kali/VAmPI/models">http://127.0.0.1:5000/home/kali/VAmPI/models</a>                         |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
|            |   |

|            |   |
|------------|---|
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/home/kali/VAmPI/models/books_model.py">http://127.0.0.1:5000/home/kali/VAmPI/models/books_model.py</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/home/kali/VAmPI/venv310">http://127.0.0.1:5000/home/kali/VAmPI/venv310</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib">http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10">http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10/site-packages">http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10/site-packages</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10/site-packages/connexion">http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10/site-packages/connexion</a>                       |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10/site-packages/connexion/decorators">http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10/site-packages/connexion/decorators</a> |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |

|            |   |
|------------|---|
| URL        | <a href="http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10/site-packages/connexion/decorators/decorator.py">http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10/site-packages/connexion/decorators/decorator.py</a>     |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10/site-packages/connexion/decorators/parameter.py">http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10/site-packages/connexion/decorators/parameter.py</a>     |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10/site-packages/connexion/decorators/uri_parsing.py">http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10/site-packages/connexion/decorators/uri_parsing.py</a> |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10/site-packages/flask">http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10/site-packages/flask</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10/site-packages/flask/app.py">http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10/site-packages/flask/app.py</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/robots.txt">http://127.0.0.1:5000/robots.txt</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/sitemap.xml">http://127.0.0.1:5000/sitemap.xml</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |

|            |   |
|------------|---|
| URL        | <a href="http://127.0.0.1:5000/users">http://127.0.0.1:5000/users</a>                                     |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1">http://127.0.0.1:5000/users/v1</a>                               |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/ debug">http://127.0.0.1:5000/users/v1/ debug</a>                 |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/admin">http://127.0.0.1:5000/users/v1/admin</a>                   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/admin/email">http://127.0.0.1:5000/users/v1/admin/email</a>       |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/admin/password">http://127.0.0.1:5000/users/v1/admin/password</a> |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/debug">http://127.0.0.1:5000/users/v1/debug</a>                   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/hacker">http://127.0.0.1:5000/users/v1/hacker</a>                 |
| Method     | GET   |

|            |   |
|------------|---|
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/hacker/email">http://127.0.0.1:5000/users/v1/hacker/email</a>       |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/hacker/password">http://127.0.0.1:5000/users/v1/hacker/password</a> |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/hacker2">http://127.0.0.1:5000/users/v1/hacker2</a>                 |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/login">http://127.0.0.1:5000/users/v1/login</a>                     |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/name1">http://127.0.0.1:5000/users/v1/name1</a>                     |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/name1/email">http://127.0.0.1:5000/users/v1/name1/email</a>         |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/name2">http://127.0.0.1:5000/users/v1/name2</a>                     |
| Method     | GET   |
| Attack     |   |
|            |   |

|            |   |
|------------|---|
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/name2/email">http://127.0.0.1:5000/users/v1/name2/email</a> |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/register">http://127.0.0.1:5000/users/v1/register</a>       |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/books/v1">http://127.0.0.1:5000/books/v1</a>                         |
| Method     | POST  |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/login">http://127.0.0.1:5000/users/v1/login</a>             |
| Method     | POST  |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/name1/email">http://127.0.0.1:5000/users/v1/name1/email</a> |
| Method     | POST  |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/register">http://127.0.0.1:5000/users/v1/register</a>       |
| Method     | POST  |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/admin/email">http://127.0.0.1:5000/users/v1/admin/email</a> |
| Method     | PUT   |
| Attack     |   |
| Evidence   |   |
| Other      |   |

|            |   |
|------------|---|
| Info       |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/admin/password">http://127.0.0.1:5000/users/v1/admin/password</a>   |
| Method     | PUT   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/hacker/email">http://127.0.0.1:5000/users/v1/hacker/email</a>   |
| Method     | PUT   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/hacker/password">http://127.0.0.1:5000/users/v1/hacker/password</a>   |
| Method     | PUT   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/name1/email">http://127.0.0.1:5000/users/v1/name1/email</a>   |
| Method     | PUT   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/name2/email">http://127.0.0.1:5000/users/v1/name2/email</a>   |
| Method     | PUT   |
| Attack     |   |
| Evidence   |   |
| Other Info |   |
| Instances  | 60  |
| Solution   | Ensure that Sec-Fetch-User header is included in user initiated requests.   |
| Reference  | <a href="https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/Sec-Fetch-User">https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/Sec-Fetch-User</a> |
| CWE Id     | <a href="#">352</a>   |
| WASC Id    | 9   |
| Plugin Id  | <a href="#">90005</a>   |

| Informational | Session Management Response Identified  |
|---------------|---|
| Description   | The given response has been identified as containing a session management token. The 'Other Info' field contains a set of header tokens that can be used in the Header Based Session Management Method. If the request is in a context which has a Session Management Method set to "Auto-Detect" then this rule will change the session management to use the tokens identified. |
| URL           | <a href="http://127.0.0.1:5000/users/v1/login">http://127.0.0.1:5000/users/v1/login</a>   |
| Method        | DELETE  |

|            |   |
|------------|---|
| Attack     |   |
| Evidence   | eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.<br>eyJleHAiOiJlbnR5cCI6IkpXVCJ9.<br>AjJDwDC1P6-SFjqgHD8BUyuyEFoCgcWL_q7Lv21pNIE |
| Other Info | json:auth_token   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/login">http://127.0.0.1:5000/users/v1/login</a>                               |
| Method     | GET   |
| Attack     |   |
| Evidence   | eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.<br>eyJleHAiOiJlbnR5cCI6IkpXVCJ9.<br>o96DXjIPmQzwIZyH3oAPVMQp_yPs8rs8wTwxkj-TsRQ |
| Other Info | json:auth_token   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/login">http://127.0.0.1:5000/users/v1/login</a>                               |
| Method     | POST  |
| Attack     |   |
| Evidence   | eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.<br>eyJleHAiOiJlbnR5cCI6IkpXVCJ9.<br>AjJDwDC1P6-SFjqgHD8BUyuyEFoCgcWL_q7Lv21pNIE |
| Other Info | json:auth_token   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/login">http://127.0.0.1:5000/users/v1/login</a>                               |
| Method     | POST  |
| Attack     |   |
| Evidence   | eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.<br>eyJleHAiOiJlbnR5cCI6IkpXVCJ9.<br>o96DXjIPmQzwIZyH3oAPVMQp_yPs8rs8wTwxkj-TsRQ |
| Other Info | json:auth_token   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/login">http://127.0.0.1:5000/users/v1/login</a>                               |
| Method     | PUT   |
| Attack     |   |
| Evidence   | eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.<br>eyJleHAiOiJlbnR5cCI6IkpXVCJ9.<br>AjJDwDC1P6-SFjqgHD8BUyuyEFoCgcWL_q7Lv21pNIE |
| Other Info | json:auth_token   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/login">http://127.0.0.1:5000/users/v1/login</a>                               |
| Method     | PUT   |
| Attack     |   |
| Evidence   | eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.<br>eyJleHAiOiJlbnR5cCI6IkpXVCJ9.<br>o96DXjIPmQzwIZyH3oAPVMQp_yPs8rs8wTwxkj-TsRQ |
| Other Info | json:auth_token   |
| Instances  | 6   |
| Solution   | This is an informational alert rather than a vulnerability and so there is nothing to fix.                            |
|            |   |



|           |   |
|-----------|---|
| Reference | <a href="https://www.zaproxy.org/docs/desktop/addons/authentication-helper/session-mgmt-id">https://www.zaproxy.org/docs/desktop/addons/authentication-helper/session-mgmt-id</a> |
| CWE Id    |   |
| WASC Id   |   |
| Plugin Id | <a href="#">10112</a>   |

| Informational | Storable and Cacheable Content   |
|---------------|--|
| Description   | The response contents are storable by caching components such as proxy servers, and may be retrieved directly from the cache, rather than from the origin server by the caching servers, in response to similar requests from other users. If the response data is sensitive, personal or user-specific, this may result in sensitive information being leaked. In some cases, this may even result in a user gaining complete control of the session of another user, depending on the configuration of the caching components in use in their environment. This is primarily an issue where "shared" caching servers such as "proxy" caches are configured on the local network. This configuration is typically found in corporate or educational environments, for instance. |
| URL           | <a href="http://127.0.0.1:5000">http://127.0.0.1:5000</a>  |
| Method        | GET  |
| Attack        |  |
| Evidence      |  |
| Other Info    | In the absence of an explicitly specified caching lifetime directive in the response, a liberal lifetime heuristic of 1 year was assumed. This is permitted by rfc7234.  |
| URL           | <a href="http://127.0.0.1:5000/">http://127.0.0.1:5000/</a>  |
| Method        | GET  |
| Attack        |  |
| Evidence      |  |
| Other Info    | In the absence of an explicitly specified caching lifetime directive in the response, a liberal lifetime heuristic of 1 year was assumed. This is permitted by rfc7234.  |
| URL           | <a href="http://127.0.0.1:5000/books">http://127.0.0.1:5000/books</a>  |
| Method        | GET  |
| Attack        |  |
| Evidence      |  |
| Other Info    | In the absence of an explicitly specified caching lifetime directive in the response, a liberal lifetime heuristic of 1 year was assumed. This is permitted by rfc7234.  |
| URL           | <a href="http://127.0.0.1:5000/books/v1">http://127.0.0.1:5000/books/v1</a>  |
| Method        | GET  |
| Attack        |  |
| Evidence      |  |
| Other Info    | In the absence of an explicitly specified caching lifetime directive in the response, a liberal lifetime heuristic of 1 year was assumed. This is permitted by rfc7234.  |
| URL           | <a href="http://127.0.0.1:5000/books/v1?btn=Confirm+Pin&amp;pin=ZAP">http://127.0.0.1:5000/books/v1?btn=Confirm+Pin&amp;pin=ZAP</a>  |
| Method        | GET  |
| Attack        |  |
| Evidence      |  |
| Other Info    | In the absence of an explicitly specified caching lifetime directive in the response, a liberal lifetime heuristic of 1 year was assumed. This is permitted by rfc7234.  |
| URL           | <a href="http://127.0.0.1:5000/createdb">http://127.0.0.1:5000/createdb</a>  |
| Method        | GET  |

|            |   |
|------------|---|
| Attack     |   |
| Evidence   |   |
| Other Info | In the absence of an explicitly specified caching lifetime directive in the response, a liberal lifetime heuristic of 1 year was assumed. This is permitted by rfc7234. |
| URL        | <a href="http://127.0.0.1:5000/debug">http://127.0.0.1:5000/debug</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info | In the absence of an explicitly specified caching lifetime directive in the response, a liberal lifetime heuristic of 1 year was assumed. This is permitted by rfc7234. |
| URL        | <a href="http://127.0.0.1:5000/favicon.ico">http://127.0.0.1:5000/favicon.ico</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info | In the absence of an explicitly specified caching lifetime directive in the response, a liberal lifetime heuristic of 1 year was assumed. This is permitted by rfc7234. |
| URL        | <a href="http://127.0.0.1:5000/home">http://127.0.0.1:5000/home</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info | In the absence of an explicitly specified caching lifetime directive in the response, a liberal lifetime heuristic of 1 year was assumed. This is permitted by rfc7234. |
| URL        | <a href="http://127.0.0.1:5000/home/kali">http://127.0.0.1:5000/home/kali</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info | In the absence of an explicitly specified caching lifetime directive in the response, a liberal lifetime heuristic of 1 year was assumed. This is permitted by rfc7234. |
| URL        | <a href="http://127.0.0.1:5000/home/kali/VAmPI">http://127.0.0.1:5000/home/kali/VAmPI</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info | In the absence of an explicitly specified caching lifetime directive in the response, a liberal lifetime heuristic of 1 year was assumed. This is permitted by rfc7234. |
| URL        | <a href="http://127.0.0.1:5000/home/kali/VAmPI/api_views">http://127.0.0.1:5000/home/kali/VAmPI/api_views</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info | In the absence of an explicitly specified caching lifetime directive in the response, a liberal lifetime heuristic of 1 year was assumed. This is permitted by rfc7234. |
| URL        | <a href="http://127.0.0.1:5000/home/kali/VAmPI/api_views/books.py">http://127.0.0.1:5000/home/kali/VAmPI/api_views/books.py</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |

|            |   |
|------------|---|
| Other Info | In the absence of an explicitly specified caching lifetime directive in the response, a liberal lifetime heuristic of 1 year was assumed. This is permitted by rfc7234.                 |
| URL        | <a href="http://127.0.0.1:5000/home/kali/VAmPI/models">http://127.0.0.1:5000/home/kali/VAmPI/models</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info | In the absence of an explicitly specified caching lifetime directive in the response, a liberal lifetime heuristic of 1 year was assumed. This is permitted by rfc7234.                 |
| URL        | <a href="http://127.0.0.1:5000/home/kali/VAmPI/models/books_model.py">http://127.0.0.1:5000/home/kali/VAmPI/models/books_model.py</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info | In the absence of an explicitly specified caching lifetime directive in the response, a liberal lifetime heuristic of 1 year was assumed. This is permitted by rfc7234.                 |
| URL        | <a href="http://127.0.0.1:5000/home/kali/VAmPI/venv310">http://127.0.0.1:5000/home/kali/VAmPI/venv310</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info | In the absence of an explicitly specified caching lifetime directive in the response, a liberal lifetime heuristic of 1 year was assumed. This is permitted by rfc7234.                 |
| URL        | <a href="http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib">http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info | In the absence of an explicitly specified caching lifetime directive in the response, a liberal lifetime heuristic of 1 year was assumed. This is permitted by rfc7234.                 |
| URL        | <a href="http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10">http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info | In the absence of an explicitly specified caching lifetime directive in the response, a liberal lifetime heuristic of 1 year was assumed. This is permitted by rfc7234.                 |
| URL        | <a href="http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10/site-packages">http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10/site-packages</a>                     |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info | In the absence of an explicitly specified caching lifetime directive in the response, a liberal lifetime heuristic of 1 year was assumed. This is permitted by rfc7234.                 |
| URL        | <a href="http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10/site-packages/connexion">http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10/site-packages/connexion</a> |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info | In the absence of an explicitly specified caching lifetime directive in the response, a liberal lifetime heuristic of 1 year was assumed. This is permitted by rfc7234.                 |

|            |   |
|------------|---|
| URL        | <a href="http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10/site-packages/connexion/decorators">http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10/site-packages/connexion/decorators</a>                               |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info | In the absence of an explicitly specified caching lifetime directive in the response, a liberal lifetime heuristic of 1 year was assumed. This is permitted by rfc7234.   |
| URL        | <a href="http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10/site-packages/connexion/decorators/decorator.py">http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10/site-packages/connexion/decorators/decorator.py</a>     |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info | In the absence of an explicitly specified caching lifetime directive in the response, a liberal lifetime heuristic of 1 year was assumed. This is permitted by rfc7234.   |
| URL        | <a href="http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10/site-packages/connexion/decorators/parameter.py">http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10/site-packages/connexion/decorators/parameter.py</a>     |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info | In the absence of an explicitly specified caching lifetime directive in the response, a liberal lifetime heuristic of 1 year was assumed. This is permitted by rfc7234.   |
| URL        | <a href="http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10/site-packages/connexion/decorators/uri_parsing.py">http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10/site-packages/connexion/decorators/uri_parsing.py</a> |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info | In the absence of an explicitly specified caching lifetime directive in the response, a liberal lifetime heuristic of 1 year was assumed. This is permitted by rfc7234.   |
| URL        | <a href="http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10/site-packages/flask">http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10/site-packages/flask</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info | In the absence of an explicitly specified caching lifetime directive in the response, a liberal lifetime heuristic of 1 year was assumed. This is permitted by rfc7234.   |
| URL        | <a href="http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10/site-packages/flask/app.py">http://127.0.0.1:5000/home/kali/VAmPI/venv310/lib/python3.10/site-packages/flask/app.py</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info | In the absence of an explicitly specified caching lifetime directive in the response, a liberal lifetime heuristic of 1 year was assumed. This is permitted by rfc7234.   |
| URL        | <a href="http://127.0.0.1:5000/robots.txt">http://127.0.0.1:5000/robots.txt</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info | In the absence of an explicitly specified caching lifetime directive in the response, a liberal lifetime heuristic of 1 year was assumed. This is permitted by rfc7234.   |

|            |   |
|------------|---|
| URL        | <a href="http://127.0.0.1:5000/sitemap.xml">http://127.0.0.1:5000/sitemap.xml</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info | In the absence of an explicitly specified caching lifetime directive in the response, a liberal lifetime heuristic of 1 year was assumed. This is permitted by rfc7234. |
| URL        | <a href="http://127.0.0.1:5000/users">http://127.0.0.1:5000/users</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info | In the absence of an explicitly specified caching lifetime directive in the response, a liberal lifetime heuristic of 1 year was assumed. This is permitted by rfc7234. |
| URL        | <a href="http://127.0.0.1:5000/users/v1">http://127.0.0.1:5000/users/v1</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info | In the absence of an explicitly specified caching lifetime directive in the response, a liberal lifetime heuristic of 1 year was assumed. This is permitted by rfc7234. |
| URL        | <a href="http://127.0.0.1:5000/users/v1/ debug">http://127.0.0.1:5000/users/v1/ debug</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info | In the absence of an explicitly specified caching lifetime directive in the response, a liberal lifetime heuristic of 1 year was assumed. This is permitted by rfc7234. |
| URL        | <a href="http://127.0.0.1:5000/users/v1/admin">http://127.0.0.1:5000/users/v1/admin</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info | In the absence of an explicitly specified caching lifetime directive in the response, a liberal lifetime heuristic of 1 year was assumed. This is permitted by rfc7234. |
| URL        | <a href="http://127.0.0.1:5000/users/v1/admin/email">http://127.0.0.1:5000/users/v1/admin/email</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info | In the absence of an explicitly specified caching lifetime directive in the response, a liberal lifetime heuristic of 1 year was assumed. This is permitted by rfc7234. |
| URL        | <a href="http://127.0.0.1:5000/users/v1/admin/password">http://127.0.0.1:5000/users/v1/admin/password</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info | In the absence of an explicitly specified caching lifetime directive in the response, a liberal lifetime heuristic of 1 year was assumed. This is permitted by rfc7234. |
| URL        | <a href="http://127.0.0.1:5000/users/v1/debug">http://127.0.0.1:5000/users/v1/debug</a>   |
|            |   |

|            |   |
|------------|---|
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info | In the absence of an explicitly specified caching lifetime directive in the response, a liberal lifetime heuristic of 1 year was assumed. This is permitted by rfc7234. |
| URL        | <a href="http://127.0.0.1:5000/users/v1/hacker">http://127.0.0.1:5000/users/v1/hacker</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info | In the absence of an explicitly specified caching lifetime directive in the response, a liberal lifetime heuristic of 1 year was assumed. This is permitted by rfc7234. |
| URL        | <a href="http://127.0.0.1:5000/users/v1/hacker/email">http://127.0.0.1:5000/users/v1/hacker/email</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info | In the absence of an explicitly specified caching lifetime directive in the response, a liberal lifetime heuristic of 1 year was assumed. This is permitted by rfc7234. |
| URL        | <a href="http://127.0.0.1:5000/users/v1/hacker/password">http://127.0.0.1:5000/users/v1/hacker/password</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info | In the absence of an explicitly specified caching lifetime directive in the response, a liberal lifetime heuristic of 1 year was assumed. This is permitted by rfc7234. |
| URL        | <a href="http://127.0.0.1:5000/users/v1/hacker2">http://127.0.0.1:5000/users/v1/hacker2</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info | In the absence of an explicitly specified caching lifetime directive in the response, a liberal lifetime heuristic of 1 year was assumed. This is permitted by rfc7234. |
| URL        | <a href="http://127.0.0.1:5000/users/v1/login">http://127.0.0.1:5000/users/v1/login</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info | In the absence of an explicitly specified caching lifetime directive in the response, a liberal lifetime heuristic of 1 year was assumed. This is permitted by rfc7234. |
| URL        | <a href="http://127.0.0.1:5000/users/v1/name1">http://127.0.0.1:5000/users/v1/name1</a>   |
| Method     | GET   |
| Attack     |   |
| Evidence   |   |
| Other Info | In the absence of an explicitly specified caching lifetime directive in the response, a liberal lifetime heuristic of 1 year was assumed. This is permitted by rfc7234. |
| URL        | <a href="http://127.0.0.1:5000/users/v1/name1/email">http://127.0.0.1:5000/users/v1/name1/email</a>   |
| Method     | GET   |
| Attack     |   |

|            |  |
|------------|--|
| Evidence   |  |
| Other Info | In the absence of an explicitly specified caching lifetime directive in the response, a liberal lifetime heuristic of 1 year was assumed. This is permitted by rfc7234.  |
| URL        | <a href="http://127.0.0.1:5000/users/v1/name2">http://127.0.0.1:5000/users/v1/name2</a>  |
| Method     | GET  |
| Attack     |  |
| Evidence   |  |
| Other Info | In the absence of an explicitly specified caching lifetime directive in the response, a liberal lifetime heuristic of 1 year was assumed. This is permitted by rfc7234.  |
| URL        | <a href="http://127.0.0.1:5000/users/v1/name2/email">http://127.0.0.1:5000/users/v1/name2/email</a>  |
| Method     | GET  |
| Attack     |  |
| Evidence   |  |
| Other Info | In the absence of an explicitly specified caching lifetime directive in the response, a liberal lifetime heuristic of 1 year was assumed. This is permitted by rfc7234.  |
| URL        | <a href="http://127.0.0.1:5000/users/v1/register">http://127.0.0.1:5000/users/v1/register</a>  |
| Method     | GET  |
| Attack     |  |
| Evidence   |  |
| Other Info | In the absence of an explicitly specified caching lifetime directive in the response, a liberal lifetime heuristic of 1 year was assumed. This is permitted by rfc7234.  |
| URL        | <a href="http://127.0.0.1:5000/users/v1/login">http://127.0.0.1:5000/users/v1/login</a>  |
| Method     | POST   |
| Attack     |  |
| Evidence   |  |
| Other Info | In the absence of an explicitly specified caching lifetime directive in the response, a liberal lifetime heuristic of 1 year was assumed. This is permitted by rfc7234.  |
| URL        | <a href="http://127.0.0.1:5000/users/v1/register">http://127.0.0.1:5000/users/v1/register</a>  |
| Method     | POST   |
| Attack     |  |
| Evidence   |  |
| Other Info | In the absence of an explicitly specified caching lifetime directive in the response, a liberal lifetime heuristic of 1 year was assumed. This is permitted by rfc7234.  |
| Instances  | 47   |
| Solution   | <p>Validate that the response does not contain sensitive, personal or user-specific information. If it does, consider the use of the following HTTP response headers, to limit, or prevent the content being stored and retrieved from the cache by another user:</p> <p>Cache-Control: no-cache, no-store, must-revalidate, private</p> <p>Pragma: no-cache</p> <p>Expires: 0</p> <p>This configuration directs both HTTP 1.0 and HTTP 1.1 compliant caching servers to not store the response, and to not retrieve the response (without validation) from the cache, in response to a similar request.</p> |
|            | <a href="https://datatracker.ietf.org/doc/html/rfc7234">https://datatracker.ietf.org/doc/html/rfc7234</a>  |

|           |  |
|-----------|--|
| Reference | <a href="https://datatracker.ietf.org/doc/html/rfc7231">https://datatracker.ietf.org/doc/html/rfc7231</a><br><a href="https://www.w3.org/Protocols/rfc2616/rfc2616-sec13.html">https://www.w3.org/Protocols/rfc2616/rfc2616-sec13.html</a> |
| CWE Id    | <a href="#">524</a>  |
| WASC Id   | 13   |
| Plugin Id | <a href="#">10049</a>  |

| Informational | Storable but Non-Cacheable Content  |
|---------------|---|
| Description   | The response contents are storable by caching components such as proxy servers, but will not be retrieved directly from the cache, without validating the request upstream, in response to similar requests from other users.   |
| URL           | <a href="http://127.0.0.1:5000/books/v1?_debugger_=yes&amp;cmd=resource&amp;f=console.png">http://127.0.0.1:5000/books/v1?_debugger_=yes&amp;cmd=resource&amp;f=console.png</a>   |
| Method        | GET   |
| Attack        |   |
| Evidence      | no-cache  |
| Other Info    |   |
| URL           | <a href="http://127.0.0.1:5000/books/v1?_debugger_=yes&amp;cmd=resource&amp;f=debugger.js">http://127.0.0.1:5000/books/v1?_debugger_=yes&amp;cmd=resource&amp;f=debugger.js</a>   |
| Method        | GET   |
| Attack        |   |
| Evidence      | no-cache  |
| Other Info    |   |
| URL           | <a href="http://127.0.0.1:5000/books/v1?_debugger_=yes&amp;cmd=resource&amp;f=style.css">http://127.0.0.1:5000/books/v1?_debugger_=yes&amp;cmd=resource&amp;f=style.css</a>   |
| Method        | GET   |
| Attack        |   |
| Evidence      | no-cache  |
| Other Info    |   |
| Instances     | 3   |
| Solution      |   |
| Reference     | <a href="https://datatracker.ietf.org/doc/html/rfc7234">https://datatracker.ietf.org/doc/html/rfc7234</a><br><a href="https://datatracker.ietf.org/doc/html/rfc7231">https://datatracker.ietf.org/doc/html/rfc7231</a><br><a href="https://www.w3.org/Protocols/rfc2616/rfc2616-sec13.html">https://www.w3.org/Protocols/rfc2616/rfc2616-sec13.html</a> |
| CWE Id        | <a href="#">524</a>   |
| WASC Id       | 13  |
| Plugin Id     | <a href="#">10049</a>   |

| Informational | Tech Detected - Flask  |
|---------------|--|
| Description   | The following "Web frameworks, Web servers" technology was identified: Flask.<br><br>Described as:<br><br>Flask is a Python micro web framework ideal for rapidly constructing web applications, offering minimalism, flexibility, and modularity. |
| URL           | <a href="http://127.0.0.1:5000/createdb">http://127.0.0.1:5000/createdb</a>  |
| Method        | GET  |
| Attack        |  |
| Evidence      | Werkzeug/2.2.3   |



|            |  |
|------------|--|
| Other Info | The following CPE is associated with the identified tech: cpe:2.3:a:palletsprojects:flask:*:*:*:*:* The following version(s) is/are associated with the identified tech: 2.2.3 |
| URL        | <a href="http://127.0.0.1:5000/users/v1/login">http://127.0.0.1:5000/users/v1/login</a>  |
| Method     | POST   |
| Attack     |  |
| Evidence   | Werkzeug/2.2.3   |
| Other Info | The following CPE is associated with the identified tech: cpe:2.3:a:palletsprojects:flask:*:*:*:*:* The following version(s) is/are associated with the identified tech: 2.2.3 |
| Instances  | 2  |
| Solution   |  |
| Reference  | <a href="https://github.com/pallets/flask/">https://github.com/pallets/flask/</a>  |
| CWE Id     |  |
| WASC Id    | 13   |
| Plugin Id  | <a href="#">10004</a>  |

| Informational | Tech Detected - Python |
|---------------|------------------------|
|---------------|------------------------|

|             |  |
|-------------|--|
| Description | The following "Programming languages" technology was identified: Python.<br>Described as:<br>Python is an interpreted and general-purpose programming language.              |
| URL         | <a href="http://127.0.0.1:5000/createdb">http://127.0.0.1:5000/createdb</a>  |
| Method      | GET  |
| Attack      |  |
| Evidence    | Python/3.10.14   |
| Other Info  | The following CPE is associated with the identified tech: cpe:2.3:a:python:python:*:*:*:*:*:* * The following version(s) is/are associated with the identified tech: 3.10.14 |
| URL         | <a href="http://127.0.0.1:5000/users/v1/login">http://127.0.0.1:5000/users/v1/login</a>  |
| Method      | POST   |
| Attack      |  |
| Evidence    | Python/3.10.14   |
| Other Info  | The following CPE is associated with the identified tech: cpe:2.3:a:python:python:*:*:*:*:*:* * The following version(s) is/are associated with the identified tech: 3.10.14 |
| Instances   | 2  |
| Solution    |  |
| Reference   | <a href="https://python.org">https://python.org</a>  |
| CWE Id      |  |
| WASC Id     | 13   |
| Plugin Id   | <a href="#">10004</a>  |

| Informational | User Agent Fuzzer |
|---------------|-------------------|
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|             |  |
|-------------|--|
| Description | Check for differences in response based on fuzzed User Agent (eg. mobile sites, access as a Search Engine Crawler). Compares the response statuscode and the hashcode of the response body with the original response. |
| URL         | <a href="http://127.0.0.1:5000/users/v1/hacker2">http://127.0.0.1:5000/users/v1/hacker2</a>  |
| Method      | DELETE   |
| Attack      | Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1)   |

|            |  |
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| Evidence   |  |
| Other Info |  |
| URL        | <a href="http://127.0.0.1:5000/users/v1/hacker2">http://127.0.0.1:5000/users/v1/hacker2</a>                                      |
| Method     | DELETE   |
| Attack     | Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 6.0)   |
| Evidence   |  |
| Other Info |  |
| URL        | <a href="http://127.0.0.1:5000/users/v1/hacker2">http://127.0.0.1:5000/users/v1/hacker2</a>                                      |
| Method     | DELETE   |
| Attack     | Mozilla/5.0 (Windows NT 10.0; Trident/7.0; rv:11.0) like Gecko   |
| Evidence   |  |
| Other Info |  |
| URL        | <a href="http://127.0.0.1:5000/users/v1/hacker2">http://127.0.0.1:5000/users/v1/hacker2</a>                                      |
| Method     | DELETE   |
| Attack     | Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/75.0.3739.0 Safari/537.36 Edg/75.0.109.0 |
| Evidence   |  |
| Other Info |  |
| URL        | <a href="http://127.0.0.1:5000/users/v1/hacker2">http://127.0.0.1:5000/users/v1/hacker2</a>                                      |
| Method     | DELETE   |
| Attack     | Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/91.0.4472.124 Safari/537.36              |
| Evidence   |  |
| Other Info |  |
| URL        | <a href="http://127.0.0.1:5000/users/v1/hacker2">http://127.0.0.1:5000/users/v1/hacker2</a>                                      |
| Method     | DELETE   |
| Attack     | Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:93.0) Gecko/20100101 Firefox/91.0   |
| Evidence   |  |
| Other Info |  |
| URL        | <a href="http://127.0.0.1:5000/users/v1/hacker2">http://127.0.0.1:5000/users/v1/hacker2</a>                                      |
| Method     | DELETE   |
| Attack     | Mozilla/5.0 (compatible; Googlebot/2.1; +http://www.google.com/bot.html)   |
| Evidence   |  |
| Other Info |  |
| URL        | <a href="http://127.0.0.1:5000/users/v1/hacker2">http://127.0.0.1:5000/users/v1/hacker2</a>                                      |
| Method     | DELETE   |
| Attack     | Mozilla/5.0 (compatible; Yahoo! Slurp; http://help.yahoo.com/help/us/ysearch/slurp)  |
| Evidence   |  |

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| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/hacker2">http://127.0.0.1:5000/users/v1/hacker2</a>   |
| Method     | DELETE  |
| Attack     | Mozilla/5.0 (iPhone; CPU iPhone OS 8_0_2 like Mac OS X) AppleWebKit/600.1.4 (KHTML, like Gecko) Version/8.0 Mobile/12A366 Safari/600.1.4      |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/hacker2">http://127.0.0.1:5000/users/v1/hacker2</a>   |
| Method     | DELETE  |
| Attack     | Mozilla/5.0 (iPhone; U; CPU iPhone OS 3_0 like Mac OS X; en-us) AppleWebKit/528.18 (KHTML, like Gecko) Version/4.0 Mobile/7A341 Safari/528.16 |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/hacker2">http://127.0.0.1:5000/users/v1/hacker2</a>   |
| Method     | DELETE  |
| Attack     | msnbot/1.1 (+http://search.msn.com/msnbot.htm)  |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/name2">http://127.0.0.1:5000/users/v1/name2</a>   |
| Method     | DELETE  |
| Attack     | Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1)  |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/name2">http://127.0.0.1:5000/users/v1/name2</a>   |
| Method     | DELETE  |
| Attack     | Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 6.0)  |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/name2">http://127.0.0.1:5000/users/v1/name2</a>   |
| Method     | DELETE  |
| Attack     | Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 6.1)  |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/name2">http://127.0.0.1:5000/users/v1/name2</a>   |
| Method     | DELETE  |
| Attack     | Mozilla/5.0 (Windows NT 10.0; Trident/7.0; rv:11.0) like Gecko  |
| Evidence   |   |
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| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/name2">http://127.0.0.1:5000/users/v1/name2</a>   |
| Method     | DELETE  |
| Attack     | Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/75.0.3739.0 Safari/537.36 Edg/75.0.109.0              |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/name2">http://127.0.0.1:5000/users/v1/name2</a>   |
| Method     | DELETE  |
| Attack     | Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/91.0.4472.124 Safari/537.36                           |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/name2">http://127.0.0.1:5000/users/v1/name2</a>   |
| Method     | DELETE  |
| Attack     | Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:93.0) Gecko/20100101 Firefox/91.0  |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/name2">http://127.0.0.1:5000/users/v1/name2</a>   |
| Method     | DELETE  |
| Attack     | Mozilla/5.0 (compatible; Googlebot/2.1; +http://www.google.com/bot.html)  |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/name2">http://127.0.0.1:5000/users/v1/name2</a>   |
| Method     | DELETE  |
| Attack     | Mozilla/5.0 (compatible; Yahoo! Slurp; http://help.yahoo.com/help/us/ysearch/slurp)   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/name2">http://127.0.0.1:5000/users/v1/name2</a>   |
| Method     | DELETE  |
| Attack     | Mozilla/5.0 (iPhone; CPU iPhone OS 8_0_2 like Mac OS X) AppleWebKit/600.1.4 (KHTML, like Gecko) Version/8.0 Mobile/12A366 Safari/600.1.4      |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/name2">http://127.0.0.1:5000/users/v1/name2</a>   |
| Method     | DELETE  |
| Attack     | Mozilla/5.0 (iPhone; U; CPU iPhone OS 3_0 like Mac OS X; en-us) AppleWebKit/528.18 (KHTML, like Gecko) Version/4.0 Mobile/7A341 Safari/528.16 |
| Evidence   |   |

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| Other Info |  |
| URL        | <a href="http://127.0.0.1:5000/users/v1/name2">http://127.0.0.1:5000/users/v1/name2</a>  |
| Method     | DELETE   |
| Attack     | msnbot/1.1 (+http://search.msn.com/msnbot.htm)   |
| Evidence   |  |
| Other Info |  |
| URL        | <a href="http://127.0.0.1:5000/books/v1">http://127.0.0.1:5000/books/v1</a>  |
| Method     | GET  |
| Attack     | Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1)   |
| Evidence   |  |
| Other Info |  |
| URL        | <a href="http://127.0.0.1:5000/books/v1">http://127.0.0.1:5000/books/v1</a>  |
| Method     | GET  |
| Attack     | Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 6.0)   |
| Evidence   |  |
| Other Info |  |
| URL        | <a href="http://127.0.0.1:5000/books/v1">http://127.0.0.1:5000/books/v1</a>  |
| Method     | GET  |
| Attack     | Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 6.1)   |
| Evidence   |  |
| Other Info |  |
| URL        | <a href="http://127.0.0.1:5000/books/v1">http://127.0.0.1:5000/books/v1</a>  |
| Method     | GET  |
| Attack     | Mozilla/5.0 (Windows NT 10.0; Trident/7.0; rv:11.0) like Gecko   |
| Evidence   |  |
| Other Info |  |
| URL        | <a href="http://127.0.0.1:5000/books/v1">http://127.0.0.1:5000/books/v1</a>  |
| Method     | GET  |
| Attack     | Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/75.0.3739.0 Safari/537.36 Edg/75.0.109.0 |
| Evidence   |  |
| Other Info |  |
| URL        | <a href="http://127.0.0.1:5000/books/v1">http://127.0.0.1:5000/books/v1</a>  |
| Method     | GET  |
| Attack     | Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/91.0.4472.124 Safari/537.36              |
| Evidence   |  |
|            |  |

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| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/books/v1">http://127.0.0.1:5000/books/v1</a>   |
| Method     | GET   |
| Attack     | Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:93.0) Gecko/20100101 Firefox/91.0  |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/books/v1">http://127.0.0.1:5000/books/v1</a>   |
| Method     | GET   |
| Attack     | Mozilla/5.0 (compatible; Googlebot/2.1; +http://www.google.com/bot.html)  |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/books/v1">http://127.0.0.1:5000/books/v1</a>   |
| Method     | GET   |
| Attack     | Mozilla/5.0 (compatible; Yahoo! Slurp; http://help.yahoo.com/help/us/ysearch/slurp)   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/books/v1">http://127.0.0.1:5000/books/v1</a>   |
| Method     | GET   |
| Attack     | Mozilla/5.0 (iPhone; CPU iPhone OS 8_0_2 like Mac OS X) AppleWebKit/600.1.4 (KHTML, like Gecko) Version/8.0 Mobile/12A366 Safari/600.1.4      |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/books/v1">http://127.0.0.1:5000/books/v1</a>   |
| Method     | GET   |
| Attack     | Mozilla/5.0 (iPhone; U; CPU iPhone OS 3_0 like Mac OS X; en-us) AppleWebKit/528.18 (KHTML, like Gecko) Version/4.0 Mobile/7A341 Safari/528.16 |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/books/v1">http://127.0.0.1:5000/books/v1</a>   |
| Method     | GET   |
| Attack     | msnbot/1.1 (+http://search.msn.com/msnbot.htm)  |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/books/v1?btn=Confirm+Pin&amp;pin=ZAP">http://127.0.0.1:5000/books/v1?btn=Confirm+Pin&amp;pin=ZAP</a>           |
| Method     | GET   |
| Attack     | Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1)  |
| Evidence   |   |
| Other      |   |

|            |   |
|------------|---|
| Info       |   |
| URL        | <a href="http://127.0.0.1:5000/books/v1?btn=Confirm+Pin&amp;pin=ZAP">http://127.0.0.1:5000/books/v1?btn=Confirm+Pin&amp;pin=ZAP</a> |
| Method     | GET   |
| Attack     | Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 6.0)  |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/books/v1?btn=Confirm+Pin&amp;pin=ZAP">http://127.0.0.1:5000/books/v1?btn=Confirm+Pin&amp;pin=ZAP</a> |
| Method     | GET   |
| Attack     | Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 6.1)  |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/books/v1?btn=Confirm+Pin&amp;pin=ZAP">http://127.0.0.1:5000/books/v1?btn=Confirm+Pin&amp;pin=ZAP</a> |
| Method     | GET   |
| Attack     | Mozilla/5.0 (Windows NT 10.0; Trident/7.0; rv:11.0) like Gecko  |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/books/v1?btn=Confirm+Pin&amp;pin=ZAP">http://127.0.0.1:5000/books/v1?btn=Confirm+Pin&amp;pin=ZAP</a> |
| Method     | GET   |
| Attack     | Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/75.0.3739.0 Safari/537.36 Edg/75.0.109.0    |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/books/v1?btn=Confirm+Pin&amp;pin=ZAP">http://127.0.0.1:5000/books/v1?btn=Confirm+Pin&amp;pin=ZAP</a> |
| Method     | GET   |
| Attack     | Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/91.0.4472.124 Safari/537.36                 |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/books/v1?btn=Confirm+Pin&amp;pin=ZAP">http://127.0.0.1:5000/books/v1?btn=Confirm+Pin&amp;pin=ZAP</a> |
| Method     | GET   |
| Attack     | Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:93.0) Gecko/20100101 Firefox/91.0  |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/books/v1?btn=Confirm+Pin&amp;pin=ZAP">http://127.0.0.1:5000/books/v1?btn=Confirm+Pin&amp;pin=ZAP</a> |
| Method     | GET   |
| Attack     | Mozilla/5.0 (compatible; Googlebot/2.1; +http://www.google.com/bot.html)  |
| Evidence   |   |
| Other Info |   |

|            |   |
|------------|---|
| URL        | <a href="http://127.0.0.1:5000/books/v1?btn=Confirm+Pin&amp;pin=ZAP">http://127.0.0.1:5000/books/v1?btn=Confirm+Pin&amp;pin=ZAP</a>           |
| Method     | GET   |
| Attack     | Mozilla/5.0 (compatible; Yahoo! Slurp; http://help.yahoo.com/help/us/ysearch/slurp)   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/books/v1?btn=Confirm+Pin&amp;pin=ZAP">http://127.0.0.1:5000/books/v1?btn=Confirm+Pin&amp;pin=ZAP</a>           |
| Method     | GET   |
| Attack     | Mozilla/5.0 (iPhone; CPU iPhone OS 8_0_2 like Mac OS X) AppleWebKit/600.1.4 (KHTML, like Gecko) Version/8.0 Mobile/12A366 Safari/600.1.4      |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/books/v1?btn=Confirm+Pin&amp;pin=ZAP">http://127.0.0.1:5000/books/v1?btn=Confirm+Pin&amp;pin=ZAP</a>           |
| Method     | GET   |
| Attack     | Mozilla/5.0 (iPhone; U; CPU iPhone OS 3_0 like Mac OS X; en-us) AppleWebKit/528.18 (KHTML, like Gecko) Version/4.0 Mobile/7A341 Safari/528.16 |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/books/v1?btn=Confirm+Pin&amp;pin=ZAP">http://127.0.0.1:5000/books/v1?btn=Confirm+Pin&amp;pin=ZAP</a>           |
| Method     | GET   |
| Attack     | msnbot/1.1 (+http://search.msn.com/msnbot.htm)  |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/createdb">http://127.0.0.1:5000/createdb</a>   |
| Method     | GET   |
| Attack     | Mozilla/5.0 (iPhone; CPU iPhone OS 8_0_2 like Mac OS X) AppleWebKit/600.1.4 (KHTML, like Gecko) Version/8.0 Mobile/12A366 Safari/600.1.4      |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/books/v1">http://127.0.0.1:5000/books/v1</a>   |
| Method     | POST  |
| Attack     | Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1)  |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/books/v1">http://127.0.0.1:5000/books/v1</a>   |
| Method     | POST  |
| Attack     | Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 6.0)  |
| Evidence   |   |
| Other Info |   |



|            |  |
|------------|--|
| URL        | <a href="http://127.0.0.1:5000/books/v1">http://127.0.0.1:5000/books/v1</a>  |
| Method     | POST   |
| Attack     | Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 6.1)   |
| Evidence   |  |
| Other Info |  |
| URL        | <a href="http://127.0.0.1:5000/books/v1">http://127.0.0.1:5000/books/v1</a>  |
| Method     | POST   |
| Attack     | Mozilla/5.0 (Windows NT 10.0; Trident/7.0; rv:11.0) like Gecko   |
| Evidence   |  |
| Other Info |  |
| URL        | <a href="http://127.0.0.1:5000/books/v1">http://127.0.0.1:5000/books/v1</a>  |
| Method     | POST   |
| Attack     | Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/75.0.3739.0 Safari/537.36 Edg/75.0.109.0 |
| Evidence   |  |
| Other Info |  |
| URL        | <a href="http://127.0.0.1:5000/books/v1">http://127.0.0.1:5000/books/v1</a>  |
| Method     | POST   |
| Attack     | Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/91.0.4472.124 Safari/537.36              |
| Evidence   |  |
| Other Info |  |
| URL        | <a href="http://127.0.0.1:5000/books/v1">http://127.0.0.1:5000/books/v1</a>  |
| Method     | POST   |
| Attack     | Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:93.0) Gecko/20100101 Firefox/91.0   |
| Evidence   |  |
| Other Info |  |
| URL        | <a href="http://127.0.0.1:5000/books/v1">http://127.0.0.1:5000/books/v1</a>  |
| Method     | POST   |
| Attack     | Mozilla/5.0 (compatible; Googlebot/2.1; +http://www.google.com/bot.html)   |
| Evidence   |  |
| Other Info |  |
| URL        | <a href="http://127.0.0.1:5000/books/v1">http://127.0.0.1:5000/books/v1</a>  |
| Method     | POST   |
| Attack     | Mozilla/5.0 (compatible; Yahoo! Slurp; http://help.yahoo.com/help/us/ysearch/slurp)  |
| Evidence   |  |
| Other Info |  |
| URL        | <a href="http://127.0.0.1:5000/books/v1">http://127.0.0.1:5000/books/v1</a>  |

|            |   |
|------------|---|
| Method     | POST  |
| Attack     | Mozilla/5.0 (iPhone; CPU iPhone OS 8_0_2 like Mac OS X) AppleWebKit/600.1.4 (KHTML, like Gecko) Version/8.0 Mobile/12A366 Safari/600.1.4      |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/books/v1">http://127.0.0.1:5000/books/v1</a>   |
| Method     | POST  |
| Attack     | Mozilla/5.0 (iPhone; U; CPU iPhone OS 3_0 like Mac OS X; en-us) AppleWebKit/528.18 (KHTML, like Gecko) Version/4.0 Mobile/7A341 Safari/528.16 |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/books/v1">http://127.0.0.1:5000/books/v1</a>   |
| Method     | POST  |
| Attack     | msnbot/1.1 (+http://search.msn.com/msnbot.htm)  |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/register">http://127.0.0.1:5000/users/v1/register</a>   |
| Method     | POST  |
| Attack     | Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1)  |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/register">http://127.0.0.1:5000/users/v1/register</a>   |
| Method     | POST  |
| Attack     | Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 6.0)  |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/register">http://127.0.0.1:5000/users/v1/register</a>   |
| Method     | POST  |
| Attack     | Mozilla/5.0 (Windows NT 10.0; Trident/7.0; rv:11.0) like Gecko  |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/register">http://127.0.0.1:5000/users/v1/register</a>   |
| Method     | POST  |
| Attack     | Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/75.0.3739.0 Safari/537.36 Edg/75.0.109.0              |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/register">http://127.0.0.1:5000/users/v1/register</a>   |

|            |   |
|------------|---|
| Method     | POST  |
| Attack     | Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/91.0.4472.124 Safari/537.36                           |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/register">http://127.0.0.1:5000/users/v1/register</a>   |
| Method     | POST  |
| Attack     | Mozilla/5.0 (compatible; Googlebot/2.1; +http://www.google.com/bot.html)  |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/register">http://127.0.0.1:5000/users/v1/register</a>   |
| Method     | POST  |
| Attack     | Mozilla/5.0 (compatible; Yahoo! Slurp; http://help.yahoo.com/help/us/ysearch/slurp)   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/register">http://127.0.0.1:5000/users/v1/register</a>   |
| Method     | POST  |
| Attack     | Mozilla/5.0 (iPhone; U; CPU iPhone OS 3_0 like Mac OS X; en-us) AppleWebKit/528.18 (KHTML, like Gecko) Version/4.0 Mobile/7A341 Safari/528.16 |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/register">http://127.0.0.1:5000/users/v1/register</a>   |
| Method     | POST  |
| Attack     | msnbot/1.1 (+http://search.msn.com/msnbot.htm)  |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/admin/email">http://127.0.0.1:5000/users/v1/admin/email</a>   |
| Method     | PUT   |
| Attack     | Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1)  |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/admin/email">http://127.0.0.1:5000/users/v1/admin/email</a>   |
| Method     | PUT   |
| Attack     | Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 6.0)  |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/admin/email">http://127.0.0.1:5000/users/v1/admin/email</a>   |
| Method     | PUT   |

|            |  |
|------------|--|
| Attack     | Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 6.1)   |
| Evidence   |  |
| Other Info |  |
| URL        | <a href="http://127.0.0.1:5000/users/v1/admin/email">http://127.0.0.1:5000/users/v1/admin/email</a>                              |
| Method     | PUT  |
| Attack     | Mozilla/5.0 (Windows NT 10.0; Trident/7.0; rv:11.0) like Gecko   |
| Evidence   |  |
| Other Info |  |
| URL        | <a href="http://127.0.0.1:5000/users/v1/admin/email">http://127.0.0.1:5000/users/v1/admin/email</a>                              |
| Method     | PUT  |
| Attack     | Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/75.0.3739.0 Safari/537.36 Edg/75.0.109.0 |
| Evidence   |  |
| Other Info |  |
| URL        | <a href="http://127.0.0.1:5000/users/v1/admin/email">http://127.0.0.1:5000/users/v1/admin/email</a>                              |
| Method     | PUT  |
| Attack     | Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/91.0.4472.124 Safari/537.36              |
| Evidence   |  |
| Other Info |  |
| URL        | <a href="http://127.0.0.1:5000/users/v1/admin/email">http://127.0.0.1:5000/users/v1/admin/email</a>                              |
| Method     | PUT  |
| Attack     | Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:93.0) Gecko/20100101 Firefox/91.0   |
| Evidence   |  |
| Other Info |  |
| URL        | <a href="http://127.0.0.1:5000/users/v1/admin/email">http://127.0.0.1:5000/users/v1/admin/email</a>                              |
| Method     | PUT  |
| Attack     | Mozilla/5.0 (compatible; Googlebot/2.1; +http://www.google.com/bot.html)   |
| Evidence   |  |
| Other Info |  |
| URL        | <a href="http://127.0.0.1:5000/users/v1/admin/email">http://127.0.0.1:5000/users/v1/admin/email</a>                              |
| Method     | PUT  |
| Attack     | Mozilla/5.0 (compatible; Yahoo! Slurp; http://help.yahoo.com/help/us/ysearch/slurp)  |
| Evidence   |  |
| Other Info |  |
| URL        | <a href="http://127.0.0.1:5000/users/v1/admin/email">http://127.0.0.1:5000/users/v1/admin/email</a>                              |
| Method     | PUT  |

|            |   |
|------------|---|
| Attack     | Mozilla/5.0 (iPhone; CPU iPhone OS 8_0_2 like Mac OS X) AppleWebKit/600.1.4 (KHTML, like Gecko) Version/8.0 Mobile/12A366 Safari/600.1.4      |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/admin/email">http://127.0.0.1:5000/users/v1/admin/email</a>   |
| Method     | PUT   |
| Attack     | Mozilla/5.0 (iPhone; U; CPU iPhone OS 3_0 like Mac OS X; en-us) AppleWebKit/528.18 (KHTML, like Gecko) Version/4.0 Mobile/7A341 Safari/528.16 |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/admin/email">http://127.0.0.1:5000/users/v1/admin/email</a>   |
| Method     | PUT   |
| Attack     | msnbot/1.1 (+http://search.msn.com/msnbot.htm)  |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/admin/password">http://127.0.0.1:5000/users/v1/admin/password</a>                                     |
| Method     | PUT   |
| Attack     | Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1)  |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/admin/password">http://127.0.0.1:5000/users/v1/admin/password</a>                                     |
| Method     | PUT   |
| Attack     | Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 6.0)  |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/admin/password">http://127.0.0.1:5000/users/v1/admin/password</a>                                     |
| Method     | PUT   |
| Attack     | Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 6.1)  |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/admin/password">http://127.0.0.1:5000/users/v1/admin/password</a>                                     |
| Method     | PUT   |
| Attack     | Mozilla/5.0 (Windows NT 10.0; Trident/7.0; rv:11.0) like Gecko  |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/admin/password">http://127.0.0.1:5000/users/v1/admin/password</a>                                     |
| Method     | PUT   |
|            | Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)  |

|            |   |
|------------|---|
| Attack     | Chrome/75.0.3739.0 Safari/537.36 Edg/75.0.109.0   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/admin/password">http://127.0.0.1:5000/users/v1/admin/password</a>                                     |
| Method     | PUT   |
| Attack     | Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/91.0.4472.124 Safari/537.36                           |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/admin/password">http://127.0.0.1:5000/users/v1/admin/password</a>                                     |
| Method     | PUT   |
| Attack     | Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:93.0) Gecko/20100101 Firefox/91.0  |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/admin/password">http://127.0.0.1:5000/users/v1/admin/password</a>                                     |
| Method     | PUT   |
| Attack     | Mozilla/5.0 (compatible; Googlebot/2.1; +http://www.google.com/bot.html)  |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/admin/password">http://127.0.0.1:5000/users/v1/admin/password</a>                                     |
| Method     | PUT   |
| Attack     | Mozilla/5.0 (compatible; Yahoo! Slurp; http://help.yahoo.com/help/us/ysearch/slurp)   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/admin/password">http://127.0.0.1:5000/users/v1/admin/password</a>                                     |
| Method     | PUT   |
| Attack     | Mozilla/5.0 (iPhone; CPU iPhone OS 8_0_2 like Mac OS X) AppleWebKit/600.1.4 (KHTML, like Gecko) Version/8.0 Mobile/12A366 Safari/600.1.4      |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/admin/password">http://127.0.0.1:5000/users/v1/admin/password</a>                                     |
| Method     | PUT   |
| Attack     | Mozilla/5.0 (iPhone; U; CPU iPhone OS 3_0 like Mac OS X; en-us) AppleWebKit/528.18 (KHTML, like Gecko) Version/4.0 Mobile/7A341 Safari/528.16 |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/admin/password">http://127.0.0.1:5000/users/v1/admin/password</a>                                     |
| Method     | PUT   |

|            |  |
|------------|--|
| Attack     | msnbot/1.1 (+http://search.msn.com/msnbot.htm)   |
| Evidence   |  |
| Other Info |  |
| URL        | <a href="http://127.0.0.1:5000/users/v1/hacker/email">http://127.0.0.1:5000/users/v1/hacker/email</a>                            |
| Method     | PUT  |
| Attack     | Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1)   |
| Evidence   |  |
| Other Info |  |
| URL        | <a href="http://127.0.0.1:5000/users/v1/hacker/email">http://127.0.0.1:5000/users/v1/hacker/email</a>                            |
| Method     | PUT  |
| Attack     | Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 6.0)   |
| Evidence   |  |
| Other Info |  |
| URL        | <a href="http://127.0.0.1:5000/users/v1/hacker/email">http://127.0.0.1:5000/users/v1/hacker/email</a>                            |
| Method     | PUT  |
| Attack     | Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 6.1)   |
| Evidence   |  |
| Other Info |  |
| URL        | <a href="http://127.0.0.1:5000/users/v1/hacker/email">http://127.0.0.1:5000/users/v1/hacker/email</a>                            |
| Method     | PUT  |
| Attack     | Mozilla/5.0 (Windows NT 10.0; Trident/7.0; rv:11.0) like Gecko   |
| Evidence   |  |
| Other Info |  |
| URL        | <a href="http://127.0.0.1:5000/users/v1/hacker/email">http://127.0.0.1:5000/users/v1/hacker/email</a>                            |
| Method     | PUT  |
| Attack     | Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/75.0.3739.0 Safari/537.36 Edg/75.0.109.0 |
| Evidence   |  |
| Other Info |  |
| URL        | <a href="http://127.0.0.1:5000/users/v1/hacker/email">http://127.0.0.1:5000/users/v1/hacker/email</a>                            |
| Method     | PUT  |
| Attack     | Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/91.0.4472.124 Safari/537.36              |
| Evidence   |  |
| Other Info |  |
| URL        | <a href="http://127.0.0.1:5000/users/v1/hacker/email">http://127.0.0.1:5000/users/v1/hacker/email</a>                            |
| Method     | PUT  |
| Attack     | Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:93.0) Gecko/20100101 Firefox/91.0   |

|            |   |
|------------|---|
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/hacker/email">http://127.0.0.1:5000/users/v1/hacker/email</a>   |
| Method     | PUT   |
| Attack     | Mozilla/5.0 (compatible; Googlebot/2.1; +http://www.google.com/bot.html)  |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/hacker/email">http://127.0.0.1:5000/users/v1/hacker/email</a>   |
| Method     | PUT   |
| Attack     | Mozilla/5.0 (compatible; Yahoo! Slurp; http://help.yahoo.com/help/us/ysearch/slurp)   |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/hacker/email">http://127.0.0.1:5000/users/v1/hacker/email</a>   |
| Method     | PUT   |
| Attack     | Mozilla/5.0 (iPhone; CPU iPhone OS 8_0_2 like Mac OS X) AppleWebKit/600.1.4 (KHTML, like Gecko) Version/8.0 Mobile/12A366 Safari/600.1.4      |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/hacker/email">http://127.0.0.1:5000/users/v1/hacker/email</a>   |
| Method     | PUT   |
| Attack     | Mozilla/5.0 (iPhone; U; CPU iPhone OS 3_0 like Mac OS X; en-us) AppleWebKit/528.18 (KHTML, like Gecko) Version/4.0 Mobile/7A341 Safari/528.16 |
| Evidence   |   |
| Other Info |   |
| URL        | <a href="http://127.0.0.1:5000/users/v1/hacker/email">http://127.0.0.1:5000/users/v1/hacker/email</a>   |
| Method     | PUT   |
| Attack     | msnbot/1.1 (+http://search.msn.com/msnbot.htm)  |
| Evidence   |   |
| Other Info |   |
| Instances  | 105   |
| Solution   |   |
| Reference  | <a href="https://owasp.org/wstg">https://owasp.org/wstg</a>   |
| CWE Id     |   |
| WASC Id    |   |
| Plugin Id  | <a href="#">10104</a>   |